



# Gasoline Engine Oils Synthetic & Semi Synthetic



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## QBREX– SM/CF

QBREX API SM/CF is a fully synthetic lubricants for ultimate engine protection and performance. It is a multi-grade motor oil specially formulated with selected synthetic base fluids and race proven additives technology for use in passenger cars and light truck gasoline engines and diesel engines under all operating conditions.

### Main benefits

Ultimate protection in all driving conditions.  
Rapid oil flow and low friction effectively contributes towards reducing fuel consumption.  
Meets environmental requirements.

### Application

Qbrex SM/CF fully effective synthetic oil can be used for all naturally aspirated, fuel injected, turbo charged and multivalve passenger car engines.

### Specifications

Qbrex SM/CF fully synthetic oil exceeds the requirements of all major car manufacturers and the following standards. API SM/CF, VW-500.00, 502.00, 505.00, BMW – Ing life 98, Mercedes Benz – sheet 229.3, Porsche “GL”

### Typical Physical Characteristics

SAE Viscosity Grade	5W/30	5W/40	5W/50	10W/30	10W/40	15W/40
Vis @ 100 ° c	11.50	14.50	17.00	11.00	14.50	14.50
Viscosity Index	165	178	195	155	168	160
Pour Point ° c	-45	-45	-42	-39	-39	-39
Flash Point COC ° c	220	220	220	222	222	230
TBN mg KOH/g	10	10	10	10	10	10
Apparent Viscosity - Cp	4300 -30 °c	4500 -30 °c	4700 -30 °c	4000 -25 °c	4200 -25 °c	4000 -20 °c



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## QBREX– SL/CF

QBREX API SL/CF is a unique fully synthetic lubricants for ultimate engine protection and performance. It is multi grade motor oil formulated from selected synthetic base fluids and race proven additives technology for use in passenger cars and light truck gasoline engines and diesel under all operating conditions.

### Main benefits

Ultimate protection in all driving conditions. Rapid oil flow and low friction effectively contributes towards reducing fuel consumption. Meets environmental requirements.

### Application

Qbrex SL/CF fully synthetic oil can be used for all naturally aspirated, fuel injected, turbo charge and multivalve passenger car engines.

### Specifications

Qbrex SL/CF fully synthetic oil exceeds the requirements of all major car manufacturers and the following standards. API SL/CF, VW – 500.00, 502.00, 505.00, BMW – long life 98, Mercedes Benz-sheet 229.3, Porsche “GL”

### Typical Physical Characteristics

SAE Viscosity Grade	5W/30	5W/40	5W/50	10W/30	10W/40	15W/40
Vis @ 100 ° c	11.00	14.50	17.00	11.00	14.50	14.50
Viscosity Index	165	180	195	155	168	160
Pour Point ° c	-45	-45	-42	-39	-39	-39
Flash Point COC ° c	220	220	218	222	222	230
TBN mg KOH/g	10	10	10	10	10	10
Apparent Viscosity - Cp	4200 -30 °c	4500 -30 °c	4700 -30 °c	4000 -25 °c	4200 -25 °c	4000 -20 °c

## QBREX– SJ/CF

QBREX API SJ/CF is advance technology synthetic motor oil providing excellent performance in all passenger car, engines and light duty vehicles. It is formulated to ensure excellent viscosity retention and superior engine protection under all driving conditions.

### Main benefits

Excellent engine protection  
Improves fuel efficiency  
Extended oil drain intervals

### Application

Qbrex SJ/CF fully synthetic Motor Oil can be used in all naturally aspirated, fuel injected, turbocharged and multivalve engines.

### Specifications

Qbrex SJ/CF fully synthetic Motor Oil meets and exceeds the requirements of all major manufacturers API SJ/CF,CC MC G5, PD5, VW 500.00 and 505.00 BMW, Porsche and Mercedes Benz MB 229.10

### Typical Physical Characteristics

SAE Viscosity Grade	5W/30	5W/40	5W/50	10W/30	10W/40	15W/40
Viscosity, cSt @100 ° c	11.50	14.50	17.00	11.00	14.50	14.50
Viscosity Index	162	178	192	155	165	158
Pour Point ° c	-45	-45	-42	-39	-39	-39
Flash Point COC ° c	220	220	218	222	222	230
TBN mg KOH/g	10	10	10	10	10	10
Apparent Viscosity - Cp	4200 -30 °c	4500 -30 °c	4700 -30 °c	4000 -25 °c	4200 -25 °c	4000 -20 °c



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## QBREX– CI4/SL

QBREX API CI4/SL is the ultimate, fully synthetic diesel engine oil exceeding the most demanding European specifications and meeting the market demands for fuel efficient oils. It is formulated with selected synthetic base fluids and additives offering the best performance available for modern diesel engines.

### Main benefits

- Improve Piston Cleanliness
- Outstanding wear protection under all operating conditions
- Prevents bore polishing
- Superior oxidation & thermal stability
- Low Oil Top up
- Better cold starting

### Application

Qbrex CI4/SL fully synthetic Diesel Engines Oil can be used in the latest highly rated turbo charged 4 stroke diesel engines under all operating conditions.

### Specifications

Qbrex CI4/SL fully synthetic D.E Oil meets and exceeds the requirements of API CI4/SL, ACEA E3 E5, M Benz 228.3, Volvo VDS3, GM Allison C4, Man 3275, Scania – LDF, Cummins CES 20078, 20071, 20072 & 20077. Mack Truck: EO-M, EO-M+

### Typical Physical Characteristics

SAE Viscosity Grades	10W/40	15W/40
Viscosity , cSt @ 100° c	14.50	14.5
Viscosity Index	168	160
Pour Point	-39	-39
Flash Point COC	222	230
TBN ASTM D 2896	10	10
Apparent Viscosity - Cp	4200	4000
	-25° c	-20° c



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## QBREX– CH4/SJ

QBREX API CI4/SL is the ultimate, full synthetic diesel engine oil exceeding the most demanding European specifications and meeting the market demands for fuel efficient oil. It is formulated with selected synthetic base fluids and additives offering the best performance available from modern diesel engines.

### Main benefits

- Improve Piston Cleanliness
- Outstanding wear protection under all operating conditions
- Prevent bore polishing
- Superior oxidation & thermal stability
- Low oil Top up
- Better cold starting

### Application

Qbrex CH4/SJ fully synthetic Diesel Engine Oil can be used in the latest highly rated turbo charged 4 stroke diesel engines under all operating conditions.

### Specifications

Qbrex CH4/SJ full synthetic D.E oil meets and exceeds the requirements of API CH4/SJ, ACEA E3, M Benz 228.3, VOLVO VDS2, GM Allison C4, MAN 271

### Typical Physical Characteristics

SAE Viscosity Grades	10W/40	15W/40
Viscosity , cSt @ 100° c	14.50	14.5
Viscosity Index	168	160
Pour Point	-39	-39
Flash Point COC	222	230
TBN ASTM D 2896	10	10
Apparent Viscosity - Cp	4200	4000
	-25° c	-20° c



## QBREX– SJ/CF

QBREX API CI4/SL semi synthetic motor oil provides superior performance in all passenger cars and light duty vehicles. It provides superior engine protection under all driving conditions.

### Main benefits

Provide excellent engine protection in all conditions  
Provides excellent drain intervals  
Provides fuel efficiency

### Applications

Qbrex SJ/CF semi synthetic motor oil can be used in all naturally spirited, fuel injected turbocharged and multivalve engines.

### Specifications

Qbrex SJ/CF semi synthetic motor oil exceeds API SJ/CF, CC MC G5, PD2, VW 500.00 and 505.00 BMW, Porsche and Mercedes Benz MB 229.10 ect.

### Typical Physical Characteristics

SAE Viscosity Grade	5W/30	5W/40	5W/50	10W/30	10W/40	15W/40
Viscosity, cSt @ 100 ° c	11.50	15.00	17.80	11.50	14.50	14.50
Viscosity Index	155	165	170	142	155	150
Pour Point ° c	-39	-39	-39	-36	-36	-33
Flash Point COC ° c	210	210	210	216	216	220
TBN mg KOH/g	10	10	10	10	10	10
Apparent Viscosity - Cp	6400 -30 °c	6200 -30 °c	5800	6000	5600	6500 -30 °c



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# Mineral Oils

## Gear for Performance



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## QBREX– API SM

QBREX API SM is a highest quality based lubricant meeting the latest engine oil specifications of API SM. This product meets the severe demands of the new seq III G test which requires a significant boost in oxidation performance at TEOSTMHT4 test and serves as a clear API SM capability.

### Main benefits

- Excellent oxidations stability
- Excellent engine protection in severe weather conditions
- Longer drain interval
- Low oil consumption and turbo proven stability

### Application

Qbrex API SM is used in all naturally aspirated, fuel injected turbo charged and multivalve passengers cars light duty vehicles etc.

### Specifications

Qbrex API SM meets and exceeds the requirements of API SM and meets the following OEM'S standards.

- ILSAC GF-4 energy conservation standards
- General Motors GM 6094M specifications
- Chrysler Ms 6395 N Specification
- Mercedes Benz sheet 229.3
- ACEA E7 – 97, Volvo VDS3, MTU/DDU type

### Typical Physical Characteristics

SAE Viscosity Grade	10W/30	10W/40	15W/40	20W/40	20W/50
Viscosity, cSt @ 100 ° c	11.50	14.50	15.00	15.00	18.50
Viscosity Index	140	147	138	115	127
Pour Point	-33	-33	-30	-27	-27
Flash Point COC ° c	216	216	220	230	230
TBN ASTM D 2896	10	10	10	10	10
Apparent Viscosity - Cp	6400 -25° c	6600 -25° c	6000 -20° c	7600 -15° c	7800 -15° c



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## QBREX– API SL/CF

QBREX API SL/CF are designed to prepare of all gasoline and diesel powered passenger cars, light trucks and van including those fitted with turbo chargers. Originated with highly refined base stock and efficient additives technology to maintain engine oil cleanliness, wear and very good low temperature fluidity ensure easy starting in cold weather and low volatility contributes to low oil consumption.

### Main benefits

- Fuel economy and better cold starting.
- Excellent engine protection in severe weather conditions.
- Thermal stable. Anti-wear, anti-oxidant and long drain interval.
- Low oil consumption and turbo proven stability.
- Oxidation resistant, good high temperature stability.
- Longer drain interval
- Low Oil consumption

### Application

Qbrex API SL/CF oil is recommended in serve operating condition where high performance oil are required

### Specifications

Qbrex API SL/CF meets and exceeds the requirements of API SL/CF and can be used in all types of cars and light duty trucks. The product also meets ACEA E2-96 issue 3, ACEA A3-98/B3-98 issue 2/B4-02, MB 229.1, MAN 270/271, VOLVO VDS, MACK EO-L, MTU/DDU TYPE-1 ALLISOM – C4.

### Typical Physical Characteristics

SAE Viscosity Grade	10W/40	10W/40	20W/40	20W/50	40	50
Viscosity, cSt @ 100 ° c	14.50	15.00	15	18.50	15	19
Viscosity Index	147	138	114	126	97	97
Pour Point, ° c	-33	-30	-24	-24	-15	-12
Flash Point COC ° c	216	220	230	230	248	258
TBN ASTM D 2896	10	10	10	10	10	10
Apparent Viscosity - Cp	6500	6300	7700	7800	-	-
	-25° c	-25° c	-15° c	-15° c		



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## QBREX– API SG/CD

QBREX API SG/CD is manufactured from high quality mineral base oil and selective additives package. A premium quality product for use in naturally aspirated or turbo charged gasoline and diesel engines where oil of API SG/CD classification is recommended. It can also be used in place of API SF/CD or SE/CD lubricants.

### Main benefits

- Anti-wear and anti-oxidant properties.
- Promotes engine cleanliness
- Fuel economy and better cold starting
- Controls foam formation
- Prolong engine life

### Application

Qbrex API SG/CD can be used in naturally aspirated and turbo charged gasoline engines, Light trucks and passenger cars.

### Specifications

Qbrex API SG/CD meets and exceeds the requirements of API SG/CD, MIL-L-46152D, MIL-L-2104D, MB 228. 1 etc.

### Typical Physical Characteristics

SAE Viscosity Grade	40	50	15W/40	20W/40	20W/50
Viscosity, cSt @ 100 ° c	15.0	19.0	15.00	14.80	18.50
Viscosity Index	96	95	136	115	125
Pour Point° c	-15	-9	-27	-24	-24
Flash Point COC ° c	240	250	220	230	230
TBN ASTM D 2896	8	8	8	8	8.0
Apparent Viscosity - Cp	-	-	6200 -20° c	7800 -15° c	8000 -15° c

## QBREX– API SF/CD

QBREX API SF/CD is formulated with highly refined mineral base oil and selective additive package to enhance oxidation and thermal stability, protection against wear and corrosion. It meets the performance requirement of API SF/CD, MIL-L-2104D ect. And can be used for mixed fleet with gasoline and diesel engine vehicles.

### Main benefits

- Improved anti-wear property
- High thermal and oxidation stability
- Fuel economy and better cold starting.
- Good detergent and dispersant qualities.
- Prolong engine life.

### Application

Qbrex API SF/CD can be used in naturally aspirated and turbo charged gasoline engines, light trucks and passenger cars as well as diesel engines for commercial vehicles.

### Specification

Qbrex API SF/CD meets and exceeds the requirements of API SF/CD, MIL-L-2104D, CCMC G2, PDI, ML-L-46152C, Mercedes Benz 226.1 (Quality) FORD M2C101C and GM1636M.

### Typical Physical Characteristics

SAE Viscosity Grade	40	50	15W/40	20W/40	20W/50
Viscosity, cSt @ 100 ° c	15.00	19.00	15.00	14.80	18.50
Viscosity Index	96	95	136	115	120
Pour Point° c	-15	-12	-27	-15	-24
Flash Point COC ° c	240	250	220	230	230
TBN ASTM D 2896	6	6	6	6	6
Apparent Viscosity - Cp	-	-	6500 -20° c	8000 -15° c	8000 -15° c



## QBREX– API 4T

### Four Stroke Engine Oil API SJ/CF

QBREX API 4T, Multi grade engine oils are manufactured for modern gasoline engines. It is a superior quality multi grade lubricant formulated with highly refined base stock and advanced additive technology meeting the requirement of API SJ/CF classification for gasoline engines.

#### Main benefits

- Engine protection against wear and sludge.
- Engine cleanliness and low combustion residue.
- Fuel economy and better cold starting.
- Oxidation resistant, good high temperature stability.
- Longer drain interval.
- Low oil consumption

#### Application

Qbrex 4T engine oil is compatible with most natural aspirated or turbo charged diesel engine in passenger car maintaining excellent level of protection.

#### Specifications

Qbrex 4T meets and exceeds the requirements of API SJ/CF and can be used in all types of cars and light duty trucks of gasoline engines. The product also meets ACEA A3/B3, MB 229.1, VW 500/505, Porsche and BMW.

#### Typical Physical Characteristics

SAE Viscosity Grade	20W/50
Viscosity, cSt @ 100 ° c	18.30
Viscosity Index	125
Pour Point° c	-24
Flash Point COC ° c	230
TBN ASTM D 2896	10



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## QBREX– API 2T

### Two Stroke Engine Oil API TC

QBREX API 2T premium two stroke engine oil specifically developed for use in the latest air cooled two stroke engines. It is formulated with a low ash additive and special solvent that permits ready mixing with gasoline over wide temperature range. It protects against pre ignition, maximizes engine life by keeping pistons and rings free.

#### Main benefits

- Enhanced engines cleanliness
- Reduced Piston scuffing
- Self-mixing with leaded & unleaded petrol
- Protects against rusting in fresh and salt water.

#### Application

Qbrex API 2T are used for Standard two stroke motor cycle engines fitted with oil injection or premix system.

#### Specifications

Qbrex API 2T meets & exceeds the following requirements:

- API TC
- JASO FC

#### Typical Physical Characteristics

Typical Value	TC SAE 20	TC SAE 30
Kin Vis @ 100 ° c Cst	8.5	11.50
Viscosity Index	120	120
Pour Point ° c	-27	-33
Flash Point Coc ° c	120 min	120 min



## QBREX– Board

### Out Boarding Engine Oil TCW-3

QBREX Board premium quality engine oil for two cycles, water cooled out board engines of all sizes, formulated with ash less additives and a special solvent that permits ready mixing with gasoline over a wide temperature range.

#### Main Benefits

- Enhance resistance to thermal decomposition
- Trouble free ignition and protects blocking of the exhaust ports and plugs.
- Excellent filterability
- Excellent effective control over wear, rust, corrosion and ring sticking.
- Keeps engine clean

#### Application

Qbrex Board can be used in all water cooled two cycle engines including those meeting latest NMMA TCW-3 specifications.

#### Specifications

Qbrex Board meets and exceeds NMMA TCW3 specifications.

#### Typical Physical Characteristics

Typical Values	TCW3
Kin Vis @ 100° c Cst	6.5
Viscosity Index	135
Pour Point ° c	-42
Flash Point CoC ° c	90 min
Brookfield Viscosity - Cp	6000 -25° c





# Deisel Engine Oils Gear for Reliability



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## QBREX- Ultra Super Deisel Engine Oil – CJ4

QBREX Ultra Super Diesel Engine Oil the latest highest quality in Diesel Engine Oil Meeting the API CJ4 Standards. It is designed for high speed, four stroke engines designed to meet exhaust emission standards, CJ4 oils are compounded for use in all applications with diesel fuels ranging in sulfur content up to 500 PPM. It is effective at sustaining emission control system durability and oil drain intervals.

### Main benefits

- Meets exhaust emission standards
- Long oil drain intervals
- Excellent control on particulate filter blocking engine wear, piston deposits.
- Excellent low and high temperature stability
- Excellent oxidation and foam control
- Excellent control on viscosity loss due to shear

### Application

Qbrex Ultra Super D.E oil can be used for all latest highly rated turbo charged 4 stroke diesel engines under all operating conditions when sulfur content up to 500 PPM.

### Specifications

Qbrex Ultra Super D.E Oil meets and exceeds API CJ4, API CI4 with CI4 with CI4 plus, CH4, CG4 and CF4, ACEA- E7, E5. Cummins CES 20078, 71, 76, 77. Mercedes Benz: 228.3, MAN 3275 Volvo – VDS3, Scania – LDF, Mack Truck: EOM +, DAF=ACEA E3

### Typical Physical Characteristics

SAE Viscosity Grades	15W/40
Viscosity , cSt @ 40 ° c	108
Viscosity, cSt @ 100 ° c	14.85
Viscosity Index	143
Pour Point	-36
☐ Flash Point CoC	220
TBN ASTM D 2896	11
Apparent Viscosity – Cp	6000 -20° c



## QBREX- Global Extra Super Diesel – API CI4

QBREX Global Extra Super Diesel – API CI4 HAS BEEN FORMULATED WITH Group I hydro – cracked base oil and advance additive technology to achieve latest low emission and high performance requirements achieve latest low emission and high performance requirements of US, Europe and Japanese engine makers. It provides protection against oil thickening, high temperature, sludge build up, oil degradation and corrosion. It provides good shear stability.

### Main benefits

Advance additives technology provides wear protection and longer oil life. Improve engine cleanliness and protection against piston deposits. Excellent performance in heavy duty operation. Superior oxidation resistance, soot control, thermal stability. Easy cold starting and longer drain interval.

### Application

Qbrex API CI4 is recommended to be used in on and off high way diesel engine are in both two cycle and four cycles engines, extending life between overhaul in high speed/load, pick-up delivery operation.

### Specifications

Qbrex API CI4 meets and exceeds the requirement of API CI4/CH4/CG4/CF4/CF/SL/SJ. Mercedes Benz 228.1/229.1, Allison C-4, ACEA E7/A3/B4 JASO DH-1, Global DHD-1, Cummins CES 20078, CES 20077, CES 20076, MAN 3275, VOLVO VDS3, MTU-Type 2, CAT ECF1 CES 20078, CES 20077, CES 20076, MAN 3275, VOLVO VDS3, MTU-Type 2, CAT ECF1

### Typical Physical Characteristics

SAE Viscosity Grades	10W/40	15W/40	20W/50
Viscosity, cSt @ 100 ° c	14.50	15.00	18.50
Viscosity Index	147	140	128
Pour Point	-36	-30	-27
Flash Point COC	212	220	232
TBN ASTM D 2896	11.00	11.00	11.00
Apparent Viscosity - Cp	6500	6200	7800
	-25° c	-20° c	-15° c



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## QBREX – API CH4/SJ

QBREX API CH4/SJ is superior quality long drain multi grade oil, formulated with highly refined base stock and selective additive package. Qbrex API CH4/SJ is severe-duty engine oil formulated specially for high speed, four stroke diesel engines designed to meet 1999 way exhaust emission standards and also suitable for a wide range of heavy duty off-highway applications.

### Main benefits

- Superior protection against thermal break down at high temperature.
- Lower exhaust emission.
- Excellent performance in heavy duty operation
- Superior oxidation & thermal stability.
- Longer drain interval and prolong engine life.

### Application

Qbrex API CH4/SJ can be used in latest low emission and high performance engines of road transport, construction and other industries where diesel fuel sulfur should not exceed above 0.50% weight.

### Specifications

Qbrex API CH4/SJ meets and exceeds the requirement of API CH4/CG4/CF4. ACEA: E3, E5/E7. MB-228.3 Scania E3. Man 271. Volvo VDS-2. GM Allison C 4, Cummins CES 20071, 20072, 20075

### Typical Physical Characteristics

SAE Viscosity Grades	10W/40	15W/40	20W/50
Viscosity, cSt @ 100 ° c	14.50	15.00	18.50
Viscosity Index	150	140	127
Pour Point	-33	-30	-27
Flash Point COC	212	220	232
TBN ASTM D 2896	11.00	11.00	11.00
Apparent Viscosity - Cp	6500	6000	7800
	-25° c	-20° c	-15° c



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## QBREX – API CF4/SJ

QBREX API CF4/SJ is a very high performance diesel engine lubricant. It is a multi-grade oil of API CF4/SJ level for use in almost all kind of turbo charged heavy duty diesel engines. It is a blend of superior quality base stocks and additives. In addition to its high level of detergency and dispersancy. It has a stable viscosity index improve that does not shear off under severe operating conditions of high load at high temperatures.

### Main benefits

- Provides longer engine life
- Longer drain period
- Low temperature fluidity, low oil consumption
- Fuel economy and superior wear control of engine parts
- Controls piston deposits, engine cleanliness
- High resistance to oxidation & thermal degradation

### Application

Qbrex API CF4/SJ oil can be used under normal conditions for mixed fleet of diesel and gasoline engines. It can also be used as C 4 transmission fluid in Allison transmission and in Caterpillar Transmission.

### Specifications

Qbrex API CF4/SJ meets and exceeds the requirement of API CF4/SJ, MIL-L-2104E, MIL-L-46152E, CCMC D4, G4, PD2, ACEA A2/B3/E2/02, MB 229.1, VOLVO VDS, MAN 271, MTU – TYPE 1, ALLISON C 4, CAT TO2, TO3

### Typical Physical Characteristics

SAE Viscosity Grades	10W/40	15W/40	20W/50	40	50
Viscosity, cSt @ 100 ° c	14.50	14.70	18.50	15.00	19.00
Viscosity Index	148	137	125	96	96
Pour Point	-33	-27	-24	-18	-15
Flash Point COC	216	218	230	240	250
TBN ASTM D 2896	10	10	10	10	10
Apparent Viscosity - Cp	6600	6200	7800	N/A	N/A
	-25° c	-20° c	-15° c		



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## QBREX – API CF4/SG

QBREX API CF4/SJ is a very high performance heavy duty diesel engine oil formulated with superior quality base stock and modern additive technology. This product is designed for use in a wide range of diesel and gasoline engines operating under severe services conditions. They provide outstanding engine cleanliness, shear resistant and retain viscosity at high temperature.

### Main benefits

Cost effective lubricant on high-way and off-highway application.  
Advance additives technology provides controlled piston deposits.  
Good cold start, anti-wear properties, engine cleanliness in wide range of operating condition.  
Reduce oil inventories in mixed fleet operations and low

### Application

Qbrex API CF4/SJ oil can be used under normal conditions for mixed fleet of diesel and gasoline engines. It can also be used as C 4 transmission fluid in Allison transmission and in Caterpillar Transmission.

### Specifications

Qbrex API CF4/SJ meets and exceeds the requirement of API CF4/SJ, MIL-L-2104E, MIL-L-46152E, CCMC D4, G4, PD2, ACEA A2/B3/E2/02, MB 229.1, VOLVO VDS, MAN 271, MTU – TYPE 1, ALLISON C 4, CAT TO2, TO3

### Typical Physical Characteristics

SAE Viscosity Grades	40	50	15W/40	20W/50
Viscosity, cSt @ 100 ° c	15.00	19.00	15.00	18.50
Viscosity Index	96	95	137	125
Pour Point	-21	-18	-27	-24
Flash Point COC	240	250	218	230
TBN ASTM D 2896	10.00	10	10.00	10.00
Apparent Viscosity - Cp			6500 -20° c	8000 -15° c



## QBREX – API CF/SF

QBREX API CF/SJ lubricants are high quality diesel engine oils designed to use in naturally aspirated and turbo charged diesel engines. It is formulated with high quality paraffin base oils with detergent, dispersant, anti-wear, anti-corrosion and antifoam additives to give the benefit of neutralizing acidic by products of combustion, keeps piston rings deposit free and perfect against wear of high loaded valve drain components.

### Main benefits

High oxidation and thermal stability  
Advanced detergent additive technology provides controlled cylinder and piston ring deposits.  
Keeps engine clean.  
Longer drain interval.  
Prolong engine life.

### Application

Qbrex API CF/SF oil can be used under normal conditions for mixed fleet of diesel and gasoline engines and is suitable under severe condition in truck and buses. It is used in both two-cycle and four-cycle engines, extending life between overhaul in high speed/load, pickup delivery operation.

### Specifications

Qbrex meets and exceeds the requirement of API CF/SF, MIL-L-2104D, MIL-L-46152C, MB 227.0/227.5, GM Allison C-3/C-4, CCMC D1/D2, G2. PD1, MAN 270, CAT – TO2.

### Typical Physical Characteristics

SAE Viscosity Grades	30	40	50	15W/40	20W/40	20W/50
Viscosity, cSt @ 100 ° c	12.00	15.00	19.00	15.00	15.0	18.50
Viscosity Index	98	96	95	136	115	125
Pour Point	-18	-15	-12	-27	-24	-24
Flash Point COC	238	240	250	218	230	230
TBN ASTM D 2896	10	10.00	10.00	10.00	10	10.00
Apparent Viscosity - Cp				6400 -20° c	7800 -15° c	8000 -15° c



Conditions for use of this mark are controlled by AQQC Moudy International, Inc. USA. AN ISO 9001; 2000 QUALITY CERTIFIED COMPANY



## QBREX – API CF/CF2/SF

QBREX API CF/CF2/SF lubricants are high quality diesel engine oils for use in high speed naturally aspirated and turbo-charged engines. It is specifically designed for modern duty heavy application. It has superior performance compared to other diesel engine oils.

### Main benefits

Outstanding cold starting with very low consumption, with excellent bore polish and enhance wear protection.

Reduce vehicle maintenance cost and increase vehicle utilization.

Suitable for long distance trucking operation on road.

Suitable for mixed fleet operation.

Advanced detergent additive technology provides controlled engine deposits.

Excellent TBN retention throughout oil drain period.

High resistance to oxidation.

### Application

Qbrex CF/CF2/SF oils can be used normal conditions for mixed fleet of diesel and gasoline engines and is suitable under severe service condition in truck and buses. It is used in both-cycle and four-cycle engines, extending life between overhaul in high speed/load, pickup delivery operation.

### Specifications

Qbrex CF/CF2/SF meets and exceeds the requirement of API CF/CF2/SF. MIL-L-2104 D, MIL-L-46152C, MB 227.0, MAN 290, CAT-T02.

### Typical Physical Characteristics

SAE Viscosity Grades	30	40	50	15W/40	20W/40	20W/50
Viscosity, cSt @ 100 ° c	11.00	15.00	19.00	15.00	15.00	18.50
Viscosity Index	96	96	95	136	115	125
Pour Point	-18	-15	-12	-27	-24	-24
Flash Point COC	234	240	250	218	230	230
TBN ASTM D 2896	10.00	10.00	10.00	10.00	10	10.00
Apparent Viscosity - Cp				6200 -20° c	7800 -15° c	8000 -15° c



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## QBREX – API CD/SF

QBREX API CD/SF is formulated with highly refined mineral base oil and selective additives package. It is especially designed for turbo charged as naturally aspirated diesel engines operating with high sulfur fuel in severe on and off-highway applications. It protects against oil thickening, high temperature oxidation deposits, sludge and thermal oil degradation and TBN reserve.

### Main benefits

Provide outstanding performance against ring sticking, less valve train and bearing wear. It reduces piston grooves and deposits, better oil control and less bore polishing.

### Application

Qbrex API CD/SF is recommended to be used in on-highway light and heavy duty trucking, construction mining where higher sulfur are used and transmission where SAE 40 is recommended.

### Specifications

Qbrex API CD/SF meets and exceeds the requirements of API CD/SF, MIL-L-2105D, CAT – T02, Ford M2C-159B. etc.

### Typical Physical Characteristics

SAE Viscosity Grades	10W	30	40	50	15W/40	20W/40	20W/50
Viscosity, cSt @ 100 ° c	6.5	12	15	19	15	15.00	18.5
Viscosity Index	102	98	95	95	135	115	125
Pour Point	-33	-21	-18	-15	-27	-24	-24
Flash Point COC	214	236	240	250	218	230	230
TBN ASTM D 2896	8	8	8	8	8	8	8
Apparent Viscosity - Cp					6200 -20° c	7800 -15° c	8000 -15° c





## QBREX – API CC/SD

QBREX API CD/SD is a high quality heavy duty crank case oil for commercial fleets with diesel and gasoline engines, it is formulated with high quality base oils and sophisticated additives including a dispersant detergent rust inhibitor, high temperature oxidation inhibitor and an anti – wear agent.

### Main benefits

Suitable for mixed fleet operation.  
High resistance to oxidation.  
Keeps engine clean.  
Maintains TBN retention.

### Application

Qbrex API CC/SD can be used in mixed fleet of Diesel and Gasoline engines.

### Specifications

Qbrex API CC/SD meets and exceeds the requirements of API CC/SD, MIL-L-2104B etc.

### Typical Physical Characteristics

SAE Viscosity Grades	10W	30	40	50	15W/40	20W/40	20W/50
Viscosity, cSt @ 100 ° c	6.5	12.00	15.00	19.00	15.00	15.00	18.5
Viscosity Index	102	96	96	96	135	114	125
Pour Point	-33	-18	-15	-12	-27	-24	-24
Flash Point COC	214	236	96	96	218	230	230
TBN ASTM D 2896	5.0	5.0	5.0	5.0	5.0	5.0	5.0



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# AUTHOMOTIVE GEAR OILS

## Geared for Motion



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## QBREX – API GL5

QBREX API GL5 Gear Lubes blended with highly refined mineral base oil and selective additives for use in heavy duty operations are used in commercial fleet, manual transmission, axles and final drives. Protects from rust & corrosion and low temperature properties, gives good start in cold weather.

### Main benefits

- Excellent anti-wear and anti-rust characteristics.
- Resistance to oxidation and oil thickening.
- Maximize equipment life and assist smooth shifting in manual transmission.
- Outstanding performance against low speed/high torque wear and high speed scoring.
- Protects against corrosion of ferrous and non-ferrous components.
- Excellent load carrying capability in serve operating conditions.
- Compatible with all type of seal to avoid leakage.

### Application

Qbrex API GL5 Lubricants are recommended for use in Hypoid gears, compatible with seal and gasket material used in automotive gears. Drive axle, trucks, and taxicabs, contracting and farming equipment.

### Specifications

Qbrex API GL5 Gear Lube meets API service categories GL-5 and U.S Military specification MIL-L 2105D.

### Typical Physical Characteristics

SAE Viscosity Grades	90	140	80W90	85W90	85W/40
Viscosity, cSt @ 100 ° c	18.50	30.00	14.60	18.00	29.00
Viscosity Index	95	95	101	100	98
Pour Point	-18	-12	-27	-21	-21
Flash Point COC	242	258	240	242	252



## QBREX – API MP – GL4

QBREX API MP- GL4 Gear Lubes are premium quality long life gear box oils blended with extreme pressure additives and these oils are environmentally friendly contains neither lead nor chlorine. They have oxidation resistant, thermal degradation and resist staining, rusting and corrosion and excellent resistant to foaming.

### Main benefits

- Outstanding protection against wear and rust
- Longer drain interval and gear life.
- Good load carrying capability
- Resistance to oxidation and oil thickening and are compatible to oil seals.
- Good low temperature performance.

### Application

Qbrex API MP- GL4 Gear Lubricants are recommended for commercial vehicles automotive and passenger car gear type transmission and drive axis operating up to 1000C, Hypoid gear, and contractor equipment and in worm gear final drives.

### Specification

Qbrex API MP- GL4 Gear Lubes meet the performance requirements of API service GL- 4 and U.S Military Specification MIL-L-2105C

### Typical Physical Characteristics

SAE Viscosity Grades	90	140	80W90	85W90	85W140
Viscosity, cSt @ 100 ° c	18.50	30.20	14.60	18.00	29.00
Viscosity Index	96	95	101	100	98
Pour Point	-12	-9	-24	-18	-9
Flash Point COC	248	260	240	244	250



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## QBREX – API GL1

QBREX API GL1 Gear Lubes are blended with high quality mineral base oil some anti- wear and anti- foam additives which has strong oxidation and foaming resistant. These oils are intended for use in manual transmission operations under mild conditions.

### Main benefits

- Low pour point e ensures positive circulation at ambient temperature.
- Good anti-wear and anti-foam property.
- Permit easy gear changing.
- Very economical.
- Environmentally friendly as being neutral in nature.
- Compatible with oil seals.

### Application

Qbrex API GL1 are recommended for commercial vehicle transmission and drive axis and for worm drives, high bulk temperature prevails about 100 deg C.

### Specifications

Qbrex API GL1 gear Lubes meets and exceeds the requirement of API Service GL-1

### Typical Physical Characteristics

SAE Viscosity Grades	90	140
Viscosity, cSt @ 100 ° c	18.51	30.07
Viscosity Index	95	95
Pour Point	-12	-9
Flash Point COC	268	290



## QBREX – API Industrial Gear Oil

QBREX API Industrial Gear Oils are premium quality extreme pressure oils designed primarily for lubrication of heavy duty industrial gears. Their high load carrying capacity and anti-friction characteristics combine to offer superior performance in gears and in all industrial applications. They are formulated using high viscosity Index, solvent refined base oils and incorporate special sulfur – phosphorous additive to provide an extreme pressure performance.

### Main benefits

- Excellent load carrying and anti-friction characteristics.
- Outstanding oxidation and thermal stability.
- Effective corrosion inhibition.
- Effective water shedding properties.

### Application

Qbrex API Industrial Gear Oil can be used in steel gear transmissions, Industrial gears transmissions, Industrial gear drives where a full EP performance is required, and circulating and splash lubricated system and bearings.

### Specifications

Qbrex API Industrial Gear Oil meets AGMA 250.04 2 EP to 7 EP, AGMA 251.02 4 EP, 5EP, 6EP, DAVID BROWN SL 53. 101, US Steel 220 & 224. Cincinnati Milacron P-63 (68). DIN 51517 part III

### Typical Physical Characteristics

David Brown/ Grade No	2EP	3EP	4EP	5EP	6EP	7EP
ISO Viscosity Grades	68	100	150	220	320	460
Viscosity, cSt @ 40° c	68	101	150	220	320	450
Viscosity , cSt @ 100° c	8.6	11.2	14.6	18.80	24.01	30.00
Viscosity Index	97	96	96	95	95	95
Pour Point	-24	-21	-18	-15	-12	-9
Flash Point COC	220	232	242	248	254	260
Timken OK load KG	27	27	27	27	27	27





# TRANSFORMATION FLUIDS

## Geared for Motion



Conditions for use of this mark are controlled by AOQC Moudy International, Inc. USA. AN ISO 9001; 2000 QUALITY CERTIFIED COMPANY



## QBREX – API Automatic Transmission Fluid Dexron III

QBREX API Automatic Transmission Fluid Dexron III is a superior quality automatic transmission fluid meeting General Motors GM Dexron III Specifications. It is a special fluid with highly improved performance over Dexron IIID and Dexron IIE carefully formulated multifunctional power transmission fluid which satisfies the latest requirements of passengers cars and commercial vehicle automatics, has the facility and oiliness suited to the requirements of modern automatic gear boxes. It has extremely low temperature fluidity.

### Main benefits

- Excellent shift fueling
- Extremely low temperature fluidity
- Shear stability & wear protection
- Maximum oil drain interval
- High temperature oxidation stability

### Application

Qbrex API Automotive Transmission Fluid Dexron III is recommended for use in automotive automatic transmissions, Hydraulic system, power steering and certain manual transmissions.

### Specifications

Qbrex API Automotive Transmission Fluid Dexron III meets and exceeds General Motors GM Dexron III specifications, Ford M2C 138-CJ/166h, Allison C 4 specifications, CAT – TO2.

### Typical Physical Characteristics

Test	Typical Reports
Color	Red
Viscosity @ 40 ° c	31.0
Viscosity @ 100 ° c	7.0
Viscosity Index	198
Pour Point ° c	-45
Flash Point CoC ° c	190
Brookfield mpa - 40	18,000





## QBREX – API Automatic Transmission Fluid Dexron II

QBREX API Automatic Transmission Fluid Dexron II is a superior quality automatic transmission fluid formulated with viscosity index oils and selective additive package to obtain anti-wear, anti-oxidant, anti-foam properties and low temperature fluidity. It provide excellent protection against wear and their frictional properties gives consistent and smooth shift under a wide range of driving condition.

### Main benefits

- Excellent anti-wear, anti-oxidant and anti-friction properties.
- Excellent low temperature fluidity, thermal and high shear stability.
- Provides smooth and trouble free operation of ATF.
- Good frictional properties gives smooth shift performance.
- Prompt circulation and effective lubrication at low temperature.

### Application

Qbrex API Automatic Transmission Fluid Dexron II is recommended for use in passenger cars and light trucks as well as power steering which required Dexron II D specification fluid. It can also be used in some hydraulic system farm equipment. It is compatible with seal material transmission unit.

### Specifications

Qbrex API Automatic Transmission Fluid Dexron II meets the performance criteria of GM Dexron IID Dexron IID and Dexron IIE, Mercedes Benz 236.7. ALLISON C3, GM 6137M, Caterpillar TO-2

### Typical Physical Characteristics

Test	Typical Reports
Color	Red
Viscosity @ 100 ° c	6.5
Viscosity Index	170
Pour Point ° c	-45
Flash Point CoC ° c	202
Brookfield mpa - 40	30,000



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## QBREX – API TYPE ‘A’

QBREX API Type ‘A’ is a high quality automotive transmission power steering and hydraulic oil. It is used in heavy trucks and off road vehicles. It is also as transmission fluid for certain (manual) passenger car transmissions.

### Main benefits

- Provides smooth & trouble free operation.
- Good frictional properties.
- Good anti-wear, anti-oxidant properties

### Application

Qbrex API TYPE ‘A’ is recommended for use in manual passenger car transmission, heavy trucks and off road vehicles.

### Specifications

Qbrex API TYPE ‘A’ meets and exceeds GM type ‘A’ Suffix ‘A’, Allison C4, and Mercedes Benz 236.2

### Typical Physical Characteristics

Test	Typical Reports
Color	Red
Viscosity @ 100 ° c	6.0
Viscosity Index	130
Pour Point ° c	-36
Flash Point CoC ° c	200





# INDUSTRIAL LUBRICANTS

## Geared for Motion



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## QBREX – API AW HYDRAULIC OIL

QBREX API AW HYDRAULIC OIL are premium quality anti-oxidant, anti-wear, anti-rust hydraulic oils for industrial hydraulic applications blended with selected high quality base stocks and special additives to give excellent dimulsibility, superior oxidation and thermal stability and excellent load carrying capacity.

### Main benefits

- Excellent oxidation & thermal stability.
- Excellent load carrying capacity.
- Outstanding anti-wear performance.
- Superior filterability and good water separation.
- Low friction and hydraulic stability.
- Excellent air release and antifoam properties.

### Application

Qbrex API AW Hydraulic Oil can be used in all Hydraulic and fluid power transmission system suitable for a wide range of other industrial applications.

### Specifications

Qbrex API AW Hydraulic Oil meets and exceeds the performance standards of Dension HFI, HF2, HFO specifications DIN 51524 PART 2, FORD M-6C32, CINCINNATI P-68, P-69, VICKERS M 29505 ( Mobile Equipment), Vickers 1- 2865 ( Industrial Equipment’s) AF nor NFE 48 – 603 HM, US steel 136 – 127 , ASLE 64-1 to 64- 4 70-1 to 70-3.

### Typical Physical Characteristics

ISO Viscosity Grades	32	46	68	100	150	220
Viscosity, cSt @ 40° c	32	45	68	102	152	222
Viscosity, cSt @ 100° c	5.4	6.70	8.65	11.20	14.70	18.90
Viscosity Index	102	101	95	95	95	95
Pour Point	-27	-24	-18	-18	-15	-12
Flash Point COC	210	226	240	240	250	260



Conditions for use of this mark are controlled by AQQC Moudy International, Inc. USA. AN ISO 9001; 2000 QUALITY CERTIFIED COMPANY



## QBREX – API AW HYDRAULIC OIL HV

QBREX API AW HYDRAULIC OIL HV are premium quality, shear stable, multi viscosity, anti-wear hydraulic fluids which incorporates a special viscosity index improver additives to enhance their viscosity/temperature characteristics.

### Main benefits

- Excellent oxidation stability.
- Resist oil thickening and deposit formation.
- High shear stability.
- Outstanding anti-wear performance.
- Excellent filterability
- Rapid air release and corrosion protection

### Application

Qbrex AW Hydraulic Oil HV can be used in all Hydraulic and fluid power transmission system which are subjected to wide variations in temperatures.

### Specifications

Qbrex AW Hydraulic Oil HV meets and exceeds the performance standards of Denison HFI, HF2, HFO, FORD M-6C32, GM LHH-04-01, meets Vickers 1-2865, M-29505, DIN 51524 part 2, CINCINNATI P-68, P-69 and P-70. AFRON NFE 480690 (DRY) AFRON NFE 48-691 (WET) AFRON NFE 48-603

### Typical Physical Characteristics

ISO Viscosity Grades	32	46	68	100
Viscosity, cSt @ 40° c	32	46	67	100
Viscosity, cSt @ 100° c	6.2	8.2	11.00	15.00
Viscosity Index	146	154	156	157
Pour Point	-33	-27	-24	-21
Flash Point COC	210	218	230	250
Air release @ 50° c Max	5	6	9	



Conditions for use of this mark are controlled by AQQC Moudy International, Inc. USA. AN ISO 9001; 2000 QUALITY CERTIFIED COMPANY



## QBREX – R & O TURBINE OIL ISO 32, 46, 68, 100

QBREX R @ O TURBINE OILS are blended from solvent refined base oils with high quality additives inhibited to enhance their rust and oxidation properties. They are exceptionally well suited for use as team turbine lubricants whose effective rust prevention and good air and water release ensures reliable efficient operation over long period of use.

### Main benefits

- Excellent Thermal and Oxidation Stability
- Excellent corrosion protection.
- Excellent oil/water separation properties.
- Good air release characteristics.

### Application

Qbrex R & O Turbine Oils can be used for power generation steam engines, industrial steam turbines, Turbines air compressors and certain lubricated bearings.

### Specifications

Qbrex R & O Turbine Oil meets BS 489:1983 ( ISO 32 to ISO 68), us Military MIL-L 17672D, Cincinnati Milacron P-38, P-55, P-54( ISO 32, 46, 68) respectively. DIN 51515 part 1, Brown Boveri HT GD 90 117E, Alsthoun Atlantique NBA P50001. General Electric GEK – 46506B, GEK 21843A, GEK-141003H, US Steel 120 and 125 (Bench Test) GECB 207001

### Typical Physical Characteristics

ISO Viscosity Grades	32	46	68	100
Viscosity, cSt @ 40° c	32	45	68	101
Viscosity, cSt @ 100° c	5.4	6.7	8.65	11.20
Viscosity Index	102	101	98	96
Pour Point	-27	-24	-21	-18
Flash Point COC	215	226	230	238
Air release @ 50° c Max	2.90	3.80	6.20	-



Conditions for use of this mark are controlled by AOQC Moudy International, Inc. USA. AN ISO 9001; 2000 QUALITY CERTIFIED COMPANY



## QBREX – API GENERAL PURPOSE OIL

QBREX General Purpose Oil are straight paraffin mineral oil suitable for circulating oil systems including lubrication of large journal bearings and for many industrial hydraulics applications where non additive oils are required. It is also suitable for once through lubrication system and gears not requiring heavy duty oils.

### Main benefits

Good oxidation and thermal stability  
Water shedding properties.  
High viscosity index.

### Application

Qbrex API General Purpose Oil are used for lubrication of large journals bearings and many industrial hydraulic applications where non additive oils are required.

### Specifications

Qbrex general purpose oils meets the required specifications of straight mineral oils.

### Typical Physical Characteristics

ISO Viscosity Grade	32	46	68	100	150	220	320	460
Viscosity , cSt @ 40 ° c	31	45	67	98	150	220	320	460
Viscosity, cSt @ 100° c	5.25	6.65	8.5	10.9	14.50	18.70	24.00	30.40
Viscosity Index	99	99	96	95	95	95	95	95
Pour Point	-22	-9	-9	-9	-6	-6	-6	-6
Flash Point COC	210	218	234	244	258	268	278	290



Conditions for use of this mark are controlled by AQQC Moudy International, Inc. USA. AN ISO 9001; 2000 QUALITY CERTIFIED COMPANY



## QBREX – API CIRCULATING OIL

QBREX CIRCULATING OIL are premium quality mineral oils blended with carefully selected additives for use in circulation system and certain other industrial applications which do not required oil with EP Properties.

### Main benefits

- Wide operating temperature range.
- Anti-corrosion protection for all metal surfaces.
- Excellent anti-foam and air release properties.
- Good water separation properties.

### Application

Qbrex API Circulating Oil are used for machine circulation systems, oil lubricated plain & roller element bearings, Roll-neck bearings. They may also be used as hydraulic fluids, Industrial Gear Lubricants and general purpose oils.

### Specifications

Qbrex API Circulating oils meets the required specifications of circulating oils.

### Typical Physical Characteristics

ISO Viscosity Grade	32	46	68	100	150	220	320	460
Viscosity , cSt @ 40 ° c	31	45	66	98	150	220	320	460
Viscosity, cSt @ 100° c	5.25	6.65	8.5	10.9	14.50	18.70	24.00	30.40
Viscosity Index	99	99	97	95	95	95	95	95
Pour Point	-30	-27	-24	-21	-18	-15	-12	-6
Flash Point COC	210	216	234	244	258	268	278	290



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## QBREX – API Compressor Oil

QBREX Compressor Oils are premium quality Air Compressor lubricants blended with high quality paraffinic base oils and selected anti-oxidant and rust inhibitors to give low carbon forming tendencies in Air compressor applications. They are designed for use in rotary and reciprocating compressors both for stationary and mobile applications. These oils can also be used in vacuum pumps because of their low volatility.

### Main benefits

- Very good oxidation resistance.
- Very good Air release and anti-foam properties.
- Very good rusting and wear protection properties.
- Maintains internal surface cleanliness.
- Longer oil drains intervals.

### Application

Qbrex API Compressor Oils can be used in rotary and reciprocating compressors both for stationery and mobile applications. They can also be used in vacuum pumps and screw pumps.

### Specifications

Qbrex API Compressor Oils meets the German standards DIN 51506 VD-L.

### Typical Physical Characteristics

ISO Viscosity Grades	32	46	68	100
Viscosity, cSt @ 40° c	32	46	68	98
Viscosity, cSt @ 100° c	5.35	6.65	8.65	10.9
Viscosity Index	99	98	98	95
Pour Point	-30	-27	-24	-21
Flash Point COC	208	214	234	246
Air release @ 50° c minutes	2.9	3.8	6.2	-





# MARINE ENGINE OILS

## Geared for Soaring



Conditions for use of this mark are controlled by AOQC Moudy International, Inc. USA. AN ISO 9001; 2000 QUALITY CERTIFIED COMPANY



## QBREX – API Marine System Oil 6 TBN & 9 TBN

QBREX Marine Oil is premium quality lubricant for cross head diesel engine crank case system. It is especially effective in high rated cross head engines with oil cooled pistons, power take – off (PTO) gear applications.

### Main benefits

Good Alkinity

Excellent resistance to corrosion

Excellent detergency keeps crankcase and under piston spaces clean.

Good oxidation stability.

### Application

Qbrex Marine System Oil 6 TBN & 9 TBN can be used for crank case lubrication of high power low speed cross head marine diesel engines. It can be used in stationery diesel engines for power generation and reduction gear boxes.

### Specifications

Qbrex Marine System Oil meets API service classification of CD and MIL-L 2104C.

#### Typical Physical Characteristics

SAE Viscosity Grades	6 TBN			9 TBN		
	30	40	50	30	40	50
	306	406	506	309	409	509
Viscosity, cSt @ 40° c	110	150	220	110	150	220
Viscosity, cSt @ 100° c	12.0	15	19	12	15	19
Viscosity Index	98	99	97	98	99	97
Pour Point	-24	-21	-18	-24	-21	-18
Flash Point	230	240	250	230	240	250
TBN mg KOH/gm	6	6	6	9	9	9



Conditions for use of this mark are controlled by AOQC Moudy International, Inc. USA. AN ISO 9001; 2000 QUALITY CERTIFIED COMPANY



## QBREX – API Marine Engine Oil

### 12 TBN & 15 TBN

QBREX Marine Engine Oil 12 & 15 TBN are a blend of superior quality high viscosity index paraffinic base stock with balanced additive package. They have TBN value of 12 & 15 and are recommended for crank case and cylinder lubrication of trunk piston type naturally aspirated or turbo charged medium speed marine and stationery diesel engines. Burning heavy fuel up to 1.0 % with sulfur content under serve opening conditions.

#### Main benefits

Excellent anti-wear properties.

Reduces ring & linear wear.

Excellent detergent dispersant properties to reduce deposits formation and keeps the engine clean.

Prevents scuffing and scoring of engine parts.

Excellent anti-corrosion properties.

#### Application

Qbrex Marine Oil 12 TBN & 15 TBN can be used for crank case and cylinder lubrication of Truck piston type naturally aspirated of turbo charged medium speed marine and stationery diesel engines.

#### Specifications

Qbrex Marine Oil 12 & 15 meets API service classification of API CD.

#### Typical Physical Characteristics

	6 TBN			9 TBN		
SAE Viscosity Grades	30	40	50	30	40	50
	306	406	506	309	409	509
Viscosity, cSt @ 40° c	110	150	220	110	150	220
Viscosity, cSt @ 100° c	12.0	15	19	12	15	19
Viscosity Index	98	99	97	98	99	97
Pour Point	-24	-21	-18	-24	-21	-18
Flash Point	230	240	250	230	240	250
TBN mg KOH/gm	6	6	6	9	9	9



Conditions for use of this mark are controlled by AOQC Moudy International, Inc. USA. AN ISO 9001; 2000 QUALITY CERTIFIED COMPANY



## QBREX – API Severe Duty Marine Engine Oil

### 320, 420, 520 (20 TBN)

QBREX Severe Duty Marine Engine Oil is specially formulated for naturally aspirated or turbo charged heavy duty diesel engines having separate cylinder lubrication system burning high sulfur fuel.

#### Main benefits

- Good detergent – dispersant properties/
- Excellent anti-wear, anti-rust and anti-corrosion properties.
- Ensures longer engine life.
- Excellent engine cleanliness.
- Low cylinder and piston ring wear.

#### Application

Qbrex Severe Duty Marine Engine Oil 320, 420, 520 can be used for marine naturally aspirated or turbo charged heavy duty diesel engines.

#### Specifications

Qbrex Severe Duty Marine Engine Oil meet the API specification of CD, MIL-L-2104C, and CCMC D1/D2.

#### Typical Physical Characteristics

SAE Viscosity Grades	30	40	50
	320	420	520
Viscosity, cSt @ 40° c	108	150	220
Viscosity, cSt @ 100° c	12	15.2	19.2
Viscosity Index	100	102	98
Flash Point COC	226	236	244
Pour Point	-24	-21	-18
TBN mg KOH/gm	20	20	20



Conditions for use of this mark are controlled by AOQC Moudy International, Inc. USA. AN ISO 9001; 2000 QUALITY CERTIFIED COMPANY



### QBREX – API Severe Duty Marine Engine Oil

QBREX Severe Duty Marine Engine Oil are superior quality detergent lubricants blended specifically for use in the truck piston engines in a variety of services. They are available in various TBN Numbers to match the different types of fuels and sulfur content. They are available in Total Base Numbers of 24, 30, 40 and 50 in SAE 30, 40 & 50 viscosity grades.

#### Main benefits

- Excellent Engine cleanliness.
- Very high oxidation resistance.
- Very good Base Number retention.

#### Application

Qbrex Severe duty marine oils can be used in medium speed diesel engines burning residue fuels.

#### Specifications

Qbrex Severe Duty Marine Engine Oil meets the API service classification standards of API- CD

#### Typical Physical Characteristics

	24 TBN			30 TBN			40 TBN			50 TBN		
	30	40	50	30	40	50	30	40	50	30	40	50
SAE Viscosity Grades	324	424	524	330	430	530	340	440	540	350	450	550
Viscosity, cSt @ 40° c	108	150	220	107	155	224	108	155	224	108	155	224
Viscosity, cSt @ 100° c	12	15.2	19.2	12	15.5	19.5	12	15.5	19.5	12	15.5	19.5
Viscosity Index	100	102	98	107	102	99	100	102	99	100	102	99
Pour Point	-24	-21	-18	-24	-21	-18	-24	-21	-18	-24	-21	-18
Flash Point COC	226	236	244	226	236	246	226	236	246	226	236	246
TBN mg KOH/gm	24	24	24	30	30	30	40	40	50	50	50	50





# SPECIALTY PRODUCT Geared for Soaring



Conditions for use of this mark are controlled by AOQC Moudy International, Inc. USA. AN ISO 9001; 2000 QUALITY CERTIFIED COMPANY



## QBREX – HIVOLT BS 148 Transformer Oil

QBREX Hivolt Bs 148 Transformer Oil is an uninhibited Transformer Oil class IA confirms to IEC 296: 1982 class 1A and BS 148: 1998 class 1A requirements.

### Typical Physical Characteristics

Test Description	Test Method	Specification Limits	Typical Values
Appearance	CL 7.1 of IEC 296-82/ BS 147-1998	Transparent clear, From suspended	Odorless liquid free Impurities
Kinematic Viscosity, mm <sup>2</sup> /s (Max)			
At 40° C	BS EN ISO 3104	16.5	9.44
At – 15°C	BS EN ISO 3104	800	298
Flash Point ° C ,(min), PMCC	BS EN 22719	140	-36 168
Pour Point °C	BS 2000 ( P: 15)	≤ - 30	-36
Density Kg/dm <sup>3</sup> , @20°C (Max)	BS EN ISO 3675	0.895	0.821
Neutralization Value mg KOH/g (Max)	CL. 7.6 of BS 148-98	0.03	Nil
Corrosive Sulfur	ISO 5662/BS 5680	Non Corrosive	Non Corrosive
Water Content, Max mg/kg	IEC 60814		
a) Bulk		20	14
b) Drum		30	22
Anti- Oxidant Additives (Sub Clause2.5)	IEC 60666/BS 5984	0.15 – 0.4%	0.3%
Oxidation Stability ( Induction Period ), hrs (Min)	IEC 60474 BS EN 61125:1993 (Method C)	120 0.25 0.01	195 0.05 Nil
Oxidation Stability, 164 hrs			
Total Acidity, mg KOH/g of oil (Max) sludge, % by mass (Max)			
Break Down Voltage, Min.	BS EN 60156		
As delivered (Kv), min		30	70
After treatment (Kv), min (For IEC 296)		50	-
Dielectric Dissipation Factor at 90 °C and 40 to 60 Hz (Max)	BS 5737	0.005	0.0005
Gassing Tendency at 50 Hz after 120 Min.mm <sup>3</sup> /min, Method A (Max)	BS 5797	+8	+1
Total PCB content mg/kg	BS EN 61619	Not detectable	Not detectable
Total Furans mg/Kg, Max	BS 61198	1.00	Nil
Polycyclic Aromatics % mass, Max	BS 2000 (P:346)	3.00	0.5





## QBREX – Heat Transfer Fluid

QBREX Heat Transfer Fluids are strongest mineral oils and have Good thermal conductivity. It is recommended as a heating medium and can operate a maximum temperature of 270°C. They are available in various viscosity grades.

### Main benefits

- Uniform heat transfer
- Long service life.
- Protects against corrosion.
- Prevents deposits.

### Application

Qbrex Heat Transfer Fluids are recommended in service for closed system whose bulk temperature does not exceed 270° C.

### Typical Physical Characteristics

SAE Viscosity Grades	32	46	68	100
Viscosity, cSt @ 40° c	31	45	67	98
Viscosity, cSt @ 100° c	5.25	6.65	8.50	10.90
Viscosity Index	99	99	96	95
Pour Point	-18	-15	-12	-9
Flash Point COC	210	218	234	244



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## QBREX – Neat Cutting Oil

QBREX Neat cutting oil is non staining type cutting oil blended from high VI Base Oil and contains fatty material enhancing its free flowing and heat dissipation characteristics.

QBREX Neat cutting oil recommended for machining ferrous as well as non-ferrous metals and for repetitive machining operations of less severe nature on automatics. It is also recommended for free cutting on mild steel, which involves high spindle speeds and short cycle time,

### Typical Physical Characteristics

	Neat Cut Ferrous	Neat Cut None-Ferrous
Appearance	B & C	B & C
Specific Gravity @ 15° c	0.865	0.865
Viscosity Index Viscosity cSt @ 40 ° c	22	22
Viscosity Index Viscosity cSt @ 100 ° c	4.35	4.35
	Not miscible with Water	Not miscible with Water



## QBREX – Soluble Cutting Oil

QBREX Soluble Cutting Oil fluid has been formulated from premium quality base oils and superior additives suitable for lubricating and cooling a wide range of metal cutting and grinding operations.

It is used in machines with low to medium tensile ferrous metals, non-ferrous metal such as aluminum and alloys. It has greater ability to assist the tools in cutting apparatus. It dispersed acidity in water and produces stable emulsion.

It can be used for milling, boring and turning operations at 10: 1 up to 20:1 water and dilution and for grinding at 40:1 dilution.

### Typical Physical Characteristics

	Soluble cutting oil
Viscosity, cSt @ 40° C	47.0
Viscosity, CsT @ 100° C	6.8
Emulsion	Pass
Flash Point COC	185



## QBREX - Heavy Duty Brake Fluid Dot 3

QBREX Super 2000 Heavy Duty Brake & Clutch Fluid DOT – 3 is premium glycol quality automotive Brake fluid meeting the specifications of DOT – 3, SAE J1703 and FMVSS No. 116.

### Main benefits

- Long volatility and low pour point ensure performance in normal temperature range.
- Provides protection against rust and corrosion.
- Compatible with rubber seals.
- Miscible with other approved glycol ether.
- Good braking response.
- Reduces chances of vapor lock.

### Application

Qbrex Heavy Duty Brake Fluid is generally used in disc and drums brake system as well as clutch fluid meeting above standards.

### Typical Physical Characteristics

Density @ 20° C	1.030
Appearance	C&B
Viscosity, cSt @ 40° C	Max.12.00
Viscosity, cSt @ 100° C	Min. 1.90
ERBP° C (dry)	240
ERBrC (Wet)	145
Ph Value	9.0
Color	Natural



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## QBREX - Heavy Duty Brake Fluid Dot 4

QBREX Super 2000 Heavy Duty Brake & Clutch Fluid DOT – 4 is premium glycol type quality automotive Brake fluid meeting the specifications of DOT-4 & DOT 3, SAE J 1704, ISO 4925 and FMVSS No. 116.

### Main benefits

- Low volatility and low pour point ensure performance in normal temperature range.
- Provide protection against rust and corrosion.
- Compatible with rubber seals.
- Miscible with other approved glycol ether.
- Good braking response.
- Reduces chances of vapor lock.

### Application

Qbrex Heavy Duty Brake Fluid Dot 4 is generally used in disc and drums brake system as well as clutch fluid meeting above standards.

### Typical Physical Characteristics

Density @ 20° C	1.050
Appearance	C&B
Viscosity, cSt @ 40° C	Max.1500
Viscosity, cSt @ 100° C	Min. 2.10
ERBP° C (dry)	266
ERBrC (Wet)	160
Ph Value	7.5
Color	Natural



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# GREASES

## Geared for Smoothness



Conditions for use of this mark are controlled by AOQC Moudy International, Inc. USA. AN ISO 9001; 2000 QUALITY CERTIFIED COMPANY



## QBREX – NLGI 2 & 3

QBREX Extreme Pressure Lithium Grease are made from refined mineral base oil thickened with lithium soap and enhanced with extreme-pressure agent. Extreme – Pressure greases are very effective in automotive and industrial applications.

### Main benefits

Outstanding water resistance.

Good mechanical and thermal stability, maintains consistency

Throughout service life.

Good anti-corrosion and anti- rust properties.

Effective extreme pressure and load bearing qualities.

### Application

Automotive applications such as wheel bearings, chassis points, universal joints. Industrial equipment’s applications between temperature ranging from – 30° C to + 120 ° C.

Good for both automotive and industrial equipment’s under constant load and severe shock loading conditions.

Good mechanical and thermal stability, maintain consistency.

### Typical Physical Characteristics

NLGI Consistency	2	3
Soap Type	Lithium	Lithium
Base Oil Type	Mineral	Mineral
Drop Point	180	185
Penetration, Worked @ 25° C (0.1mm)	270	240
Timken OK Value Kg	18	18



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## QBREX – MP NLGI 2 & 3

QBREX Multipurpose Lithium Greases are made from refined mineral base oil thickened with lithium soap, castor oil and anti- rust and anti-oxidant additives to provide reliable grease for automotive applications.

### Main benefits

- Outstanding water resistance.
- Good mechanical and thermal stability.
- Good anti- corrosion and anti- rust properties.

### Application

Automotive applications such as wheel bearings, chassis points, universal joints.  
Industrial equipment’s applications between temperatures ranging from - 20° C to 120° C

### Typical Physical Characteristics

NLGI Consistency	2	3
Soap Type	Lithium	Lithium
Base Oil Type	Mineral	Mineral
Drop Point ° C	180	185
Penetration, Worked @ 25° C (0.1mm)	275	235





## QBREX – Multifunctional Grease

QBREX Multipurpose Grease containing ISO 220 Mineral Base Oil, Lithium soap thickener and oxidation inhibitor for use in automotive and industrial applications.

### Main benefits

- Reinforced ability to water wash out retain grease in place in wet environments.
- Excellent structural stability to resist excessive softening or hardening as a result of shearing.
- Effective oxidation inhibitor reduces the degradation of base oil.
- Outstanding protection against wear, rust and corrosion.

### Application

Multifunctional automotive applications such as industrial ball and roller bearings.

### Typical Physical Characteristics

NLGI Consistency	2
Colour	Dark Brown
Texture	Smooth
Soap Type	Lithium
Mineral Oil Viscosity	Mineral
@ 40 ° C	196
@ 100° C	17.4
Drop Point ( Min)	194
Penetration, Worked @ 25° C	268
Oil Separation, Mass 5 (max)	1
Rust Test	Pass
Water Wash Out	5
Copper Strip Corossion	1B



## QBREX – GP NLGI 2 & 3

QBREX GP NLGI 2 @ 3 General Purpose Greases are made from refined mineral base oil thickened with calcium soap and balanced additive package.

### Main benefits

- Outstanding water resistance.
- Resistance to contamination.
- Good anti-corrosion and anti-rust properties

### Application

Automotive applications such as wheel bearings, chassis points, universal joints.  
 Suitable for general applications where speed and load are moderate and operating temperatures is less than 80° C

### Typical Physical Characteristics

NLGI Consistency	2	3
Soap Type	Calcium	Calcium
Base Oil Type	Mineral	Mineral
Drop Point	90	90
Penetration, Worked @ 25° C ( 0.1mm)	275	235



Conditions for use of this mark are controlled by AQQC Moudy International, Inc. USA. AN ISO 9001; 2000 QUALITY CERTIFIED COMPANY

