

## BAHRAIN LUBRICANTS DIESEL ENGINE OIL SAE 20W-50 API CH-4

(Multigrade Heavy Duty Diesel Engine Oils)

### DESCRIPTION

BAHRAIN LUBRICANTS DIESEL ENGINE OIL SAE 20W-50 API CH-4 is conventional multi-grade Heavy Duty Diesel Engine Oils formulated to provide excellent performance in heavy duty fleets, marine and industrial applications. The advanced product technology offers a medium extended drain formulation that helps maximize engine durability.

### APPLICATIONS

BAHRAIN LUBRICANTS DIESEL ENGINE OIL SAE 20W-50 API CH-4 is recommended for use in all naturally aspirated and turbo-charged diesel engines fitted in trucks, tractors, buses, goods carriers (LCVs), 3-wheelers and gensets, on-highway light and heavy-duty trucking, off-highway industries including: construction, mining, quarrying, and agriculture & mixed fleet applications.

### PROPERTIES

BAHRAIN LUBRICANTS DIESEL ENGINE OIL SAE 20W-50 API CH-4 provides exclusive combinations of the latest high performance additives ensuring that the oil adapts and protects under the full range of pressures & temperatures found in modern engines - from the high temperature in the pistons, to the extreme loads found in the valve-trains. Extra active additives control & sweep away harmful soot & particles found in high performance engines.

### PERFORMANCE FEATURES AND BENEFITS

- High thermal and oxidation stability
- Deposit control and acid neutralization
- Start-up wear protection
- Cleaner engines and longer component life
- Improved soot handling
- TBN reserves
- Advanced detergency/dispersancy
- Excellent low temperature properties
- Exceptional high temperature protection for hot running engines under heavy load
- Component compatibility
- Longer gasket and seal life
- Stay-in-grade shear stability
- Improved viscosity control and used oil pumpability

### RECOMMENDATIONS / SPECIFICATIONS

International Standards : API CH-4, CG-4, /CF-4,CF ACEA -A3/B4-10, E4,E5,E6,E7, Global-DHD-1, JASO-DH-1

Meets or exceeds : MB-228.3 , DEUTZ -DQC-III-10, Renault VI RLD-2, Volvo VDS-3, Mack EO-N, Mack OE-M+, MAN-M-3275-1 (MULTI GRADE)-TUC 0028/15, Detroit Diesel 93K215, MTU Type 2, CUMMINS CES 20078,77,76,75,72,71, CAT ECF-2, ECF-1-a, ZF TE-ML 07C, MIL-PRF-2104H/NATO O-1236, MB 229.1, Allison C4

Meets quality requirements of most diesel engine manufacturers in the USA, Europe, Japan and Korea

### TYPICAL TECHNICAL PROPERTIES

Viscosity Grade, SAE J300	20W-50
Product code	0423537HT
Density at 15°C, g/ml, ASTM D4052	0.889
Cold Cranking Viscosity(CCS), mPa s, ASTM D5293	8050@-15°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	147.3
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	17.5
Viscosity Index, ASTM D2270	130
Flash Point(COC), °C, ASTM D92	230
Pour Point, °C, ASTM D97	-27
Total Base Number, mg KOH/g, ASTM D2896	10.5
Sulphated Ash, %wt, ASTM D874, max	1.68

Note: These characteristics are typical of current production. While future production will conform to current specification, variations in these characteristics may occur.

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 \* supersedes all previous versions

*Health and Safety: Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contact office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing off used product, take care to protect the environment.*