



GIANT HYDRO POWER

Top-Tier Heavy-Duty Diesel Engine Oil – API CK-4/SN

DESCRIPTION

GIANT Hydro Power 15W40 API CK-4/SN is the latest, most advanced formulation of engine oil, designed for use in high-speed four-stroke cycle diesel engines in order to meet 2017 model year on-highway and Tier 4 non-road exhaust emission standards as well as for previous model year diesel engines. These oils are formulated for use in all applications with diesel fuels ranging in sulphur content up to 500 ppm (0.05% by weight). It has a superior soot dispersing capability, thereby allowing extended drain intervals, but yet resulting in a cleaner engine, with a longer engine life. Field tests have also shown that it retains TBN levels for longer periods due to the advanced technology of the new additive chemistry.

GIANT Hydro Power helps prolong the lifespan of after-treatment devices such as DPF (Diesel Particulate Filters). It is especially effective at sustaining emission control system durability where particulate filters and other advanced aftertreatment systems are used. It is also designed to provide enhanced protection against oil oxidation, viscosity loss due to shear, and oil aeration as well as protection against catalyst poisoning, particulate filter blocking, engine wear, piston deposits, degradation of low- and high-temperature properties, and soot-related viscosity increase. It meets and/or exceeds multiple industry and engine manufacturers' standards. It easily satisfies the warranty requirements of many major OEMs such as Caterpillar, Cummins and Volvo.

PERFORMANCE STANDARDS

- API CK-4/SN
- ACEA E7/E9, JASO DH-2
- Mack EOS-4.5, EO-O Premium Plus, EO-N
- Volvo VDS-4.5, VDS-4, VDS-3
- Caterpillar ECF-3, ECF-2
- Cummins CES 20086, CES 20081
- Detroit Diesel DFS 93K222, DFS 93K218
- Daimler MB 228.31
- Ford WSS M2C171-F1
- MAN M3575
- MTU Category 2.1
- Renault RLD-4, RLD-3

BENEFITS

- Surpasses the warranty service requirements for a wide range of engines
- Enhanced protection for after-treatment devices
- Premium performance for mixed fleet operations
- Extra superior soot and wear control
- Robust reserved alkalinity (TBN) for outstanding sludge control and neutralization
- Excellent stay-in-grade stability ensures viscosity integrity and reduces oil consumption
- Enhanced friction reduction properties result in improved fuel economy and extended engine life
- Extraordinary oxidation and thermal stability for extended oil drain intervals

TYPICAL APPLICATIONS

- It can be used in on-road diesel trucks, off-highway diesel equipment, farm tractors, passenger cars and light trucks with high-speed four-stroke cycle diesel engines, turbo-charged or non-turbo charged, as well as in gasoline engines.
- Can also effectively lubricate engines calling for CJ-4, CI-4 with CI-4 Plus, CI-4, CH-4.
- Can be used with diesel fuel with more than 15 ppm sulphur but must consult the engine manufacturer for the correct service interval.

TYPICAL PROPERTIES

SAE Grade	15W40
Density, kg/Litre @ 15°C	0.876
Appearance	Brown
Kinematic Viscosity, cSt @ 40°C	115.6
Kinematic Viscosity, cSt @ 100°C	14.8
Viscosity Index	132
Pour Point, °C	-33
Flash Point, °C	226
TBN, mgKOH/g	9.8
Sulphated Ash, % wt	1.00