



PETROLIMEX

Petrolimex Petrochemical Corporation - JSC
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product information

PLC LUBRICANTS

PLC CATER PRO

Gasoline engines and turbo charge diesel engine oils

DESCRIPTION:

PLC CATER PRO is multi-grade engine oil for high-speed turbo-charged diesel engines and gasoline engines. These oils are 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. PLC CATER PRO exceed the performance criteria of API CJ-4, CI-4 PLUS, CI-4, and CH-4 and can effectively lubricate engines calling for those API Service Categories.

PLC CATER PRO is formulated for use in all applications with diesel fuels ranging in sulfur content up to 500 ppm (0.05% by weight) and especially effective at sustaining emission control system durability where particulate filters and other advanced aftertreatment systems are used.

PLC CATER PRO meets standards such as SAE: 15W40; API: CK-4/SN; ACEA E9-2016.

PLC CATER PRO meets the requirements of engine manufacturers such as:

- Caterpillar CAT ECF-3
- Cummins CES20081
- Detroit Diesel DDC93K218
- Mack EO-O PP
- Daimler MB 228.31
- Deutz DQC III-10 LA, III-18 LA
- MAN M3575
- MTU Type 2.1
- Renault RLD-3
- Volvo VDS 4

MAIN BENEFITS:

- Enhance engine durability, excellent anti-wear:
 - ✓ 70% better in Valve Train wear (ISM test)
 - ✓ 82% better in Camshaft wear protection (OM 646LA)
 - ✓ 40% better in Linear Ring Bearing Merit Rating (Mack T-12)
- Keep engine clean:
 - ✓ 80% better in piston land deposit control (Cat-C13)

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- ✓ 86% better in oil consumption control (Cat-C13)
- ✓ 52% better in high soot oil MRV test (Mark T-11)
- Good oxidation stability.
- Extend the long service life and filter.
- Easy start engine at all weather conditions.

CHARACTERISTICS:

CHARACTERISTICS	METHODS	PLC CATER PRO
1. Kinematic Viscosity at 100°C, cSt	ASTM D445	13.0 ÷ 15.0
2. Viscosity index, min	ASTM D2270	130
3. Flash point, °C, min	ASTM D92	220
4. Pour point, °C	ASTM D97/ ASTM D6749	Report
5. Water content, %vol, max	ASTM D95	0.05
6. Foaming characteristics at 93.5°C, ml/ml, max	ASTM D892	50/0
7. Copper Strip Test, max	ASTM D130	1
8. Pentane Insolubles, %wt, max	ASTM D4055	0.1
9. TBN, mg KOH/g, min	ASTM D2896	7.0
10. Metal content (Ca, Mg, Zn), % wt, min	ASTM D4951	0.1

The above are typical figures generally accepted in production but are not fixed specifications.

PACKAGES: 209L Drum, 4L, 5L, 18L and 25L Can

STORAGE:

- All packages should be stored under cover to avoid the possible ingress of water and the obliteration of drum markings.
- Product should not be stored above 60°C, exposed to direct sunlight or freezing conditions.

HANDLING, HEALTH AND SAFETY:

- This product is without significant risks to health and safety, however it needs handling and uses carefully with good hygiene standards and avoids prolonged contact with skin.
- Avoid frequent contact with eyes.
- Keep off the spark and flammable substances.
- PLC or its subsidiaries will not accept liability if the product is used other than in the manner, with the precautions, or for the purpose specified.
- For more details information, kindly contact with PLC heads office.