



PETRONAS Arbor Alfaprime 10W-30

For Tireless Machinery, The Best Fluid Technology for Your Daily Work

Agricultural and construction machinery is the lifeblood of your business. Ensuring that they are always working tirelessly and efficiently is the Number One priority. Machinery requires the best fluid technology to perform longer, especially when operating under severe conditions.

Description and Applications

PETRONAS Arbor Alfaprime 10W-30 is a premium engine oil dedicated to agricultural and construction machinery, able to keep their efficiency and offering a longer lifecycle by protecting from oxidation, decomposition, wear, and keeping an optimal pistons' cleanliness and viscosity stability. Perfect solution for high and long-lasting performance for your hard-daily work, protecting your tireless machinery from loss of performance and unplanned downtime.

PETRONAS Arbor Alfaprime 10W-30 is a low SAPS oil that is suitable for Tier 4 heavy duty diesel applications including modern, high-output, low emission engines fitted with emission control systems using DPF, SCR, DOC and EGR technologies. It is also suitable for older turbocharged and naturally aspirated diesel engine generations running on high or ultra-low Sulphur diesel and biodiesel.

Benefits

PETRONAS Arbor Alfaprime 10W-30 enhances your Business Profits and your vehicle availability while significantly reducing your operating costs through:

- **Maintains oil at optimal viscosity levels, delivering optimal lubrication to prevent unplanned breakdowns.**
- **Better fluid film resistance under severe mechanical stress to deliver enhanced engine durability.**
- **Longer Drain Interval and Engine Life** driven by:
 - o Optimal protection for emission after-treatment systems such as DPF and DOC with low ash additive system.
 - o Reduces acidic levels leads to corrosion, making your engines more durable and longer life.
 - o Enhanced thermal and oxidation stability under high temperature, providing viscosity stability and preventing formation of deposits and sludge to prolong oil life even under severe conditions

Provides outstanding Working Experience through:

- **Effectively combats high concentration of soot build ups, critical to prevent loss of vehicle horsepower**
- **Excellent low temperature viscosity** for improved lubrication during start-up

Approvals, Specifications and Recommendations

Specifications:

- API CJ-4
- ACEA E7 / E9
- CAT ECF-3/ECF-2/ECF-1a

Approvals:

- Deutz DQC III-10 LA
- Renault RLD-3

Performance Level:

- Cummins CES 20081
- Detroit Diesel DFS93K218
- MACK EO-O Premium Plus
- MAN M3575
- MB 228.31
- Volvo VDS-4

Note: Always consult your owner's manual to check recommended viscosity grade and specifications for your specific vehicle

Typical Physical Data

Parameters	Method	Unit	Typical Value
Appearance	-	-	Bright & Clear
Density @15°C	ASTM D 4052	g/cm ³	0,868
Kinematic Viscosity @100°C	ASTM D 445	mm ² /s (cSt)	12,1
Viscosity Index	ASTM D 2270	-	143
Flash Point COC	ASTM D 92	°C	> 200
TBN	ASTM D 2896	mgKOH/g	9,6
Foam at 24°C	ASTM D 892	cc/s	0 / 0
Pour Point	ASTM D	°C	< -33

All technical data is provided for reference only. These characteristics are typical of current production. Whilst future production will conform to PLI's specification, variations in these characteristics may occur.

Health, Safety and Environment

This product is unlikely to present any significant health and safety hazards when used in the recommended application. Avoid contact with skin. Wash immediately with soap and water after skin contact. Do not discharge into drains, soil or water. For further detail regarding storage, safe handling, and disposal of product, please refer to product SDS or contact us at: www.pli-petronas.com

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