

PETRONAS Arbor Alfatech Synth 10W-40

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

For all the agricultural and construction equipment hard workers, machineries are the lifeblood of their business. Ensuring that they are always working tirelessly and efficiently is the Number One priority. Machinery need the best fluid technology to last longer while working, especially when operating under severe conditions.

Description and Applications

PETRONAS Arbor Alfatech Synth 10W-40 is a premium engine oil dedicated to agricultural and construction machinery, able to keep their efficiency and offering a longer life-cycle by protecting from oxidation, decomposition, wear, and keeping an optimal pistons' cleanliness and viscosity stability. Perfect solution for high and long-lasting performances for your hard-daily work, protecting your tireless machinery from loss of performances and unplanned downtimes.

PETRONAS Arbor Alfatech Synth 10W-40 is suitable for all types of heavy-duty diesel applications including modern, high-output, low emission engines fitted with emission control system using SCR and EGR technology. It is also suitable for new and old turbocharged and naturally aspirated diesel engines, both on-highway and off-highway, running on high or ultra-low Sulphur diesel and biodiesel. Fully backward compatible with previous E7-16 classifications.

Suitable for use on all makes and brands recommending a minimum performance level of ACEA E7, API CI-4 or API CH-4. Suitable for AGCO (Massey Fergusson, Fendt, Valtra, Challenger), Caterpillar, Hitachi, Hyundai, Renault Tractors, Same Deutz Fahr, Volvo CE, Hyundai, where specifications listed below are recommended as minimum requirement.

Benefits

PETRONAS Arbor Alfatech Synth 10W-40 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.**
- **Longer Drain Interval and Engine Life** driven by:
 - o Excellent control in deposit build ups, delivering optimum engine performance
 - o Reduces acidic levels leads to corrosion, making your engines more durable and longer life.
 - o Longer oil drain capability, especially on low emission engines.

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 CI-4, CH-4
- ACEA E7
- Global DHD-1
- CAT ECF-2, ECF-1a

Approvals:

- Cummins CES 20078
- Deutz DQC III
- MACK EO-N
- MTU Oil Category 2
- Renault VI RLD-2
- Volvo VDS-3

Performance Level:

- Allison TES-439
- Cummins CES 20077
- Detroit Diesel 93K215
- MAN M3275
- DTFR 15B110 (MB 228.3)
- DTFR 13D110 (MB 235.28)
- SDFG OM-1901A
- Voith Retarder B

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	0.870
Kinematic Viscosity @100°C	ASTM D 445	mm ² /s (cSt)	14
Viscosity Index	ASTM D 2270	-	155
Flash Point COC	ASTM D 92	°C	220
TBN	ASTM D 2896	mgKOH/g	12
CCS at -25°C	ASTM D5293	mPa·s	6150
Pour Point	ASTM D 97	°C	-39

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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