



# PETRONAS Arbor Alfatech

## 15W-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 15W-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 15W-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), Bobcat, Caterpillar, CNH, Doosan, Hitachi, Hyundai, JCB, John Deere, Renault Tractors, Same Deutz Fahr, Sumitomo, Volvo CE, where specifications listed below are recommended as minimum requirement.

#### Benefits

PETRONAS Arbor Alfatech 15W-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 that lead 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**
- **Good low temperature viscosity for improved lubrication during start-up**

#### Approvals, Specifications and Recommendations

##### Specifications:

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

##### Approvals:

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

##### Performance Level:

- Cummins CES 20077/76/72/71
- MAN M3275
- MAT 3507
- MAT 3520
- MAT 3622
- MS 1120
- MB 228.3
- NH 330H
- SDFG OM-1991

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 <sup>3</sup>	0.880
Kinematic Viscosity @100°C	ASTM D 445	mm <sup>2</sup> /s (cSt)	14.5
Viscosity Index	ASTM D 2270	-	135
Flash Point COC	ASTM D 92	°C	> 210
TBN	ASTM D 2896	mgKOH/g	11.5
Foam at 24°C	ASTM D 892	cc/s	0 / 0
Pour Point	ASTM D 97	°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 refers to product SDS or contact us at: [www.pli-petronas.com](http://www.pli-petronas.com)

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