

# CARRARO OIL

## Engine TurboLub™ 15W-40

**High Performance Engine Oil, fuel-economy, developed for vehicles with modern exhaust after treatment and turbocharger. Extended drain-interval.**

### Application

- New generation engine oil, developed for HD engines.
- Formulated to satisfy the very severe European emission legislations, together with current and future indications of EPA (American Emission Legislation).
- Particularly indicated in vehicles equipped with exhaust gas post-treatment systems, such as Diesel Particulate Filters (DPF), Diesel Oxidation Catalyst (DOC), Exhaust Gas Recirculation, Twin Stage Turbochargers, Selective Catalytic Reduction (SCR) or the combinations of all the a.m. technologies.

### Benefits

- Prolongation of the life of the exhaust gas post-treatment systems.
- Outstanding anti-wear protection, even under high and continuous loads.
- Very high acid neutralization capacity (TBN).
- Minimization of the emissions and of the heavy metals pollution.
- Prevention from deposits in engines and turbochargers.
- Completely suitable for older engines, independently from the emission category.
- Possibility of rationalization between different engine oil types.

### Specifications / Approvals

- ACEA E9 / E7

- API CJ-4 / CI-4 Plus / CI-4
- JASO DH-2
- GLOBAL DHD 1
- JOHN DEERE JDQ 78X
- MB 228.31
- CUMMINS CES 20081
- MACK EO-O Premium PLUS
- VOLVO VDS – 4
- MAN 3575 / 3275 – 1
- Detroit Diesel 93K218
- Allison C-4
- Caterpillar ECF 3

### Average characteristics

<i>Properties</i>	<i>U. M.</i>	<i>Value</i>	<i>Test Method</i>
SAE Grade		15W-40	DIN 51 511
Density at 15° C	g/ml	0.876	ASTM D 1298
Flash Point COC	°C	248	ASTM D 92
Pour Point	°C	-45	ASTM D 97
Sulphated ash	% weight	1.0	DIN 51 575
Viscosity			
at 40°C	mm <sup>2</sup> /s	67	ASTM D 445
at 100°C	mm <sup>2</sup> /s	11.7	ASTM D 445
Viscosity Index		136	ASTM D 2270