

# Product Information



A PRODUCT OF THE VALVOLINE COMPANY A DIVISION OF ASHLAND INC.

## Valvoline All-Fleet Extra motor oil

101/08

Valvoline All-Fleet Extra motor oil is a Super High Performance Diesel (SHPD) motor oil for use in heavy-duty, turbo-charged industrial and truck-engines. This oil is specially engineered to meet the long drain requirements of the world's leading truck manufacturers and contains a special additive system to keep the engine clean, prevent ring sticking and wear, and maintain maximum output longer.

### The Valvoline All-Fleet Extra motor oil advantages

- \* **Emission control:** Fulfils the requirements of the EU Euro 4 emission standards for truck engines.
- \* **After treatment:** Suitable for SCR and EGR systems, **not** for DPF.
- \* **OEM approved:** Recommended and approved by many major OEM's
- \* **Long-Life:** Maximizes engine durability.
- \* **Application:** Suitable for heavy duty engines in Trucks, Buses, Marine, and Industry.

Approvals/performance levels	Viscosity Grade	
ACEA E5-02, E7-04	15W-40	
ACEA E3-96/4	15W-40	20W-50
API CF-4, CG-4, CH-4, CI-4	15W-40	
API CG-4, CF-4		20W-50
Cummins 20.076/77/78	15W-40	
DaimlerChrysler 228.3	15W-40	
Volvo VDS-3	15W-40	
MAN 3275	15W-40	
MAN 271		20W-50
Mack EO-M (plus)	15W-40 plus	20W-50
Global DHD-1	15W-40	
Renault RVI, RLD-2	15W-40	

Typical Properties	15W-40	20W-50
Viscosity, mm <sup>2</sup> /s @ 100°C.	14.3	18.1
Viscosity, mm <sup>2</sup> /s @ 40°C.	108	162
Viscosity Index	135	123
Viscosity, mPa.s @ -20°C.	<7000	
Viscosity, mPa's @ -15°C.		<9500
Sulphated Ash, wt. %	1.22	1.1
TBN, mg KOH/g (ASTM D-2896)	10.1	8.6
Pour Point, °C.	-27	-24
Specific Gravity @ 15°C.	0.886	0.890
Flash Point, COC, °C.	216	222
Noack Evaporation, wt. %	12.8	8.2

This information only applies to products manufactured in the following location(s): Europe

Effective Date:	Replaces:	Author's Initials:	Code
02-02-2006	101/07	AdG	8686

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