



## **LA 344E: ULTRA PREMIUM DIESEL ENGINE OIL**

**SAE VISCOSITY:** 5W-30

**MAJOR RATINGS:** API FA-4 ACEA F8

### **DESCRIPTION**

Ultra-premium performance long drain (extended service interval) 'Low SAPS' Diesel Engine Oil formulated to deliver exceptional performance and protection for modern high-performance diesel engines requiring EURO VI, EURO V and EURO IV OEM specifications.

### **PRODUCT APPLICATION**

LA 344E is engineered to deliver fuel economy beyond those typically provided by SAE 10W-30 engine oils. This product is a tailored formulation on PAES-SYN™ technology that delivers excellent wear and engine protection, extends oil drain capabilities, providing outstanding high temperature performance and engine cleanliness.

### **INNOVATIVE SYNTHETIC FORMULA**

LubeAlloy Specialised Lubricants proprietary blend of PAES-SYN™ synthetic base oils, are formulated to enhance engine life and durability whilst exceeding OEM requirements and test requirements.

### **FILTRATION COMPATIBILITY**

LA 344E is formulated for modern engine design utilising with and without diesel particulate filters (DPF), catalytic converters and meets new exhaust gas emission (EGR) guidelines including engines fitted with SCR NOx filtration systems.

### **FUEL EFFICIENCY**

LA 344E contributes to improved fuel economy due to low-friction properties of the PAES-SYN™ oil which reduce internal engine drag, leading to increased fuel efficiency and lower operating costs. LA 344E is suitable for diesel fuelled engines operating low and ultra-low sulfur up to 500ppm.

### **ENHANCED ENGINE PROTECTION**

PAES-SYN™ technology (Performance-Aligned Ester Synergistic) provides outstanding thermal

and oxidative stability, reducing oil degradation at high temperatures and extending oil drain intervals. The ultra high-quality base oils offer excellent film strength and wear protection, safeguarding critical engine components from friction and wear.

### **EXCEPTIONAL SHEAR STABILITY**

LA 344E delivers exceptional shear stability to protect the oil from 'rupture and separation' of the molecular structure under extreme shearing forces encountered in modern high-performance diesel engines. This vital property ensures consistent viscosity 'stay-in-grade', minimizes internal friction, and optimizes engine power output.

### **EXTENDED OIL DRAIN INTERVALS**

The robust formulation and excellent oxidation resistance of LubeAlloy LA 344E allow for extended oil drain intervals as recommended by your engine manufacturer's specifications and oil analysis programs. This translates to reduced maintenance costs and downtime.

### **RELIABLE PERFORMANCE**

LA 344E, 5W-30, FA-4 formulated with PAES-SYN™ technology is a Ultra-premium, long haul/highway diesel engine oil designed to meet the demanding requirements of modern high-performance diesel engines. Its advanced formulation provides exceptional wear protection, superior low-temperature performance, and improved fuel economy.

**FEATURES & OPERATIONAL BENEFITS**

FEATURES	ADVANTAGES AND OPERATIONAL BENEFITS
High temperature resistance	Increase equipment high temperature operating capability Reduce oil consumption volatility, extend oil life and disposal cost
Increased Engine Performance	The superior lubrication properties minimize internal friction, leading to smoother engine operation and increased power output.
Reduced wear	Provides exceptional wear protection, safeguarding critical internal engine and turbocharger components from friction and wear.
Enhanced fuel efficiency	The low-friction formulation contributes to improved fuel economy, resulting in lower operating costs.
Low Ash formulation	Low SAPS for long emissions aftertreatment devices preserving filter life
Lower maintenance cost	Extended oil drain intervals significantly reduces oil change frequency, leading to lower maintenance costs.

**SPECIFICATIONS AND PERFORMANCE REQUIREMENTS**

Detroit Diesel 93K223	Cummins CES 20087
FORD WSS-M2C-214-B1	MB 228.61

TEST DESCRIPTION	ASTM	TEST RESULT
Description	Visual	Clear/Amber
Viscosity Grade	SAE	5W-30
Viscosity, cSt @ 40°C	D-445	66.60
Viscosity, cSt @ 100°C	D-445	11.98
Viscosity Index	D-2270	180
Density @ 15°C, kg/L	D-4052	0.813
Total Base Number (TBN), mg KOH/g	D-2896	9.8
HTHS Viscosity @ 150°C, cPa	D-4683	3.2
Cold Crank Viscosity, mPa.s @ -25°C	D-5293	4,915
Pour Point, °C	D-5950	-45
Flash Point (COC), °C	D-92	252
NOACK Volatility, Evaporative Loss @ 250°C	D-5800	9.10%
Sulphated Ash, mass wt%	D-874	0.81



SPECIALISED LUBRICANTS

**Health and Safety:** This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Material Safety Data Sheet (MSDS).

**[www.lubealloy.com.au](http://www.lubealloy.com.au)**

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***Innovative Fluid Engineering***