



SPECIALISED LUBRICANTS

**PRODUCT NAME: LA 377 AUTOMOTIVE ENGINE OIL**

**SAE VISCOSITY: 5W-30**

**MAJOR RATINGS: VW 504/507 ACEA C3 API SN**

## DESCRIPTION

Ultra-Premium long drain advanced performance automotive engine oil providing exhaust after treatment protection, fuel conserving, turbocharger and camshaft wear protection in the Volkswagen Group, including Audi, Seat and Skoda.

LA 377 is suitable for European vehicles requiring ACEA C3 'LOW SAPS' performance levels.

## PRODUCT APPLICATION

LA 377 SAE 5W-30 ACEA C3 provides protection and performance for vehicles requiring advanced Gasoline Catalytic Converters and Diesel Exhaust Particulate Filter (DPF) protection, including API SN/SN PLUS-RC. Presents ACEA C3 'LOW SAPS' coverage for modern OEM European specified vehicles including Volkswagen Group – AUDI, SEAT, SKODA and BMW, Mercedes Benz, Porsche specified vehicles for both turbocharged and normally aspirated petrol and diesel vehicles.

## ADVANCED SYNTHETIC FORMULA

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

## GREATER FRICTIONAL PERFORMANCE

PAES-SYN™ base oils have been developed as a result of extensive research of friction coefficient chemistry. This research has shown that, in a bearing subjected to a high sliding velocity, reducing the dynamic viscosity produces a more consistent hydrodynamic film which is highly resistant to mechanical shear, successfully reducing friction between sliding and bearing surfaces.

## THERMAL AND OXIDATION STABILITY

The use of PAES-SYN™ base oils lowers operating temperature, viscosity loss and oil consumption.

Mechanisms that induce oxidation rates within the oil are reduced. This superior oxidation stability effectively:

- Decreases oil acidity
- Significantly reduces varnish deposits on 'hot' metal surfaces of pistons and turbochargers
- Eliminates sludge deposits formed by oil-insoluble polymers when mixed with unburned fuel, water and reactive metals
- Prevents rapid additive depletion
- Maintains viscosity over longer service intervals

## EXHAUST AFTER-TREATMENT DEVICE

### COMPATIBILITY

Advanced chemistry, with reduced Sulphated Ash, Phosphorous and Sulphur levels, maintains full compatibility with Diesel Particulate Filters (DPF), Gasoline Catalytic Converters and Selective Catalytic Reduction (SCR) resulting in lower emissions and longer after-treatment device component life. LA 377 is formulated for fuel economy and energy conserving in EURO VI, V, IV engines with normal and extended oil change intervals.

## FUEL EFFICIENCY

Low coefficient of friction properties of PAES-SYN™ base oils and requirements for OEM specific chemistry provides fuel economy benefits. LA 377 is compatible with gasoline, LPG, E10, E85 and diesel type fuels.



## WEAR PROTECTION

LA 377 overcomes potential problems of 'High Temperature/High Shear' levels in low viscosity oils. The formulation of PAES-SYN™ base oils and highly advanced additive technology in LA 377 provides a resilient oil film to protect internal engine components. LA 377 alleviates oil gallery deposits, maintaining critical oil flow throughout turbochargers protecting when operated under stop-start city driving, long distance highway driving and towing loads.

## RELIABLE PERFORMANCE

LA 377 delivers year round protection in high-performance turbocharged, supercharged, multi-valve fuel injected engines found in passenger cars, SUVs, light vans and light trucks.

## FEATURES & OPERATIONAL BENEFITS

FEATURES	ADVANTAGES AND OPERATIONAL BENEFITS
Unique PAES-SYN™ formulation	Outperforms conventional oil
Enhanced frictional properties	Increased fuel savings from lower fuel burn
Outstanding thermal and oxidation stability	Protects engines over extended oil drain
Outstanding low temperature capabilities	Quick cold weather starting and fast protection helps to extend engine life
Low Ash, Sulphur and Phosphorous content	Protects DPFs (diesel) and exhaust catalyst (gasoline) operational capability

## SPECIFICATIONS & APPROVALS

API: SN/CF
ACEA: C3-21
ILSAC: GF-6A
VW: 504/507
BMW: Longlife LL - 04
MB: 229.51
Porsche: C30



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## PHYSICAL CHARACTERISTICS

TEST DESCRIPTION	ASTM	TEST RESULT
Description	Visual	Clear/Amber
Viscosity Grade	SAE	5W-30
Viscosity, cSt @ 40°C	D-445	63.88
Viscosity, cSt @ 100°C	D-445	11.78
Viscosity Index	D-2270	182
Density @ 15°C, kg/L	D-4052	0.849
Total Base Number (TBN), mg KOH/g	D-2896	7.8
HTHS Viscosity @ 150°C, cPa	D-4683	3.5
Cold Crank Viscosity, mPa.s @ -30°C	D-5293	5,277
Pour Point, °C	D-5950	-48
Flash Point (COC), °C	D-92	240
NOACK Volatility, Evaporative Loss @ 250°C, %	D-5800	7.1
Sulphated Ash, % m/m	D-2584	0.77

**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).