



SPECIALISED LUBRICANTS

PRODUCT NAME: LA 374 AUTOMOTIVE ENGINE OIL

SAE VISCOSITY: 5W-30

MAJOR RATINGS: ACEA C3 API SP ILSAC GF-6

DESCRIPTION

Ultra-Premium long drain (extended service interval) performance motor oil specified in European vehicles providing fuel conserving properties, exhaust after treatment device protection and camshaft drive chain and turbocharger wear protection. Specifically formulated to perform in European and Asian diesel and gasoline engines requiring a Mid SAPS-ACEA C3 low friction motor oil specification.

PRODUCT APPLICATION

LA 374 SAE 5W-40 provides increased component protection and performance for vehicles requiring advanced gasoline and diesel exhaust and particulate filter protection, including API SP. LA 374 presents ACEA C3 'Mid SAPS' coverage for modern OEM European specified vehicles including BMW, Mercedes Benz and Volkswagen as well as Asian ACEA C3 specified vehicles for both turbocharged and normally aspirated gasoline 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) and Three Way Catalysts (TWC) resulting in lower emissions and longer after-treatment device component life. LA 374 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 374 is compatible with gasoline, LPG, E10, E85 and diesel type fuels.

WEAR PROTECTION

LA 374 overcomes potential problems of 'High Temperature/High Shear' levels in mid viscosity oils. The formulation of PAES-SYN™ base oils and highly advanced additive technology in LA 374 provides a resilient oil film to protect internal engine components. LA 374 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 374 delivers year round protection in all types of modern hybrid gasoline/electric engines; gasoline- powered vehicles, including 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: C2/C3-21	
ILSAC: GF-6	VW: 502.00/505.00/505.01
FIAT: 9.55535-S2	BMW: LL-01 / LL-04
CHRYSLER: MS-11106	FORD: WSS-M2C917-A
MB: 229.52 / 229.51 / 229.31 / 226.52	
GM: Dexos 2 / LL-A-025 / LL-B-025	
Porsche: A40 / C40	Renault: RN17



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PHYSICAL CHARACTERISTICS

TEST DESCRIPTION	ASTM	TEST RESULT
Description	Visual	Clear/Amber
Viscosity Grade	SAE	5W-40
Viscosity, cSt @ 40°C	D-445	71.70
Viscosity, cSt @ 100°C	D-445	14.03
Viscosity Index	D-2270	186
Density @ 15°C, kg/L	D-4052	0.870
Total Base Number (TBN), mg KOH/g	D-2896	10.19
HTHS Viscosity @ 150°C, cPa	D-4683	3.5
Cold Crank Viscosity, mPa.s @ -30°C	D-5293	6,273
Pour Point, °C	D-5950	-48
Flash Point (COC), °C	D-92	240
NOACK Volatility, Evaporative Loss @ 250°C, %	D-5800	10.10
Sulphated Ash, % m/m	D-2584	0.78

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).