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## Product Description

Excelon™ ST (Synthetic Technology) is a high performance, partial synthetic engine oil designed to provide maximum engine protection and extended service capability. The revolutionary technology in Excelon ST consists of a uniquely engineered detergent base system that provides a quick and effective method of controlling corrosive wear in today's diesel engines. Corrosive acids, which form in the fuel combustion process, can significantly reduce engine life. Excelon ST is formulated with a high concentration of detergent alkalinity (TBN) that is specifically designed to minimize the effect of corrosive wear. At the same time, Excelon ST utilizes synthetic base oil technology for improved low temperature performance. Excelon ST is designed to meet the demands of heavy duty diesel and gasoline engines.

For maximum performance, an engine oil must have the capability of handling a wide variety of operating conditions. Excelon ST includes an effective blend of synthetic and mineral base oils, plus a highly shear stable multi-grading agent providing lower oil consumption and superior oil viscosity retention. The ST approach also includes greater oil dispersancy which provides for effective soot management, a requirement in today's emission sensitive engines. Excelon ST is truly a performance champion.

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## Product Features and Benefits

Synthetic Technology consisting of additives, base oils and viscosity modifying polymer specifically designed to *maximize engine life and optimize service intervals.*

An efficient blend of synthetics and narrow cut base oils *improves all-around performance and reduces wear in cold weather applications.*

A high concentration of detergent alkalinity (TBN) *limits corrosive wear while extending engine life and oil drain periods.*

Greater oil detergency and all calcium technology *keep modern engine designs running cleaner and more efficient.*

An effectively designed dispersant system means *better soot management for reduced oil viscosity increase, longer filter life, prevention of sludge buildup and reduces soot caused abrasion.*

A highly shear stable polymer *limits viscosity loss to provide continuous lubrication protection during full power engine use.*

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## Service Applications

API Service Categories: CI-4, CH-4, CG-4, CF, CD, SH, SJ, SL.

Mack EO-N Premium Plus

Cummins CES 20078

Volvo VDS-2.

Meets Allison C-4 performance requirements.

Four cycle diesels, emission and non-emission regulated.

Hydraulic and transmission applications where engine oil is permitted.

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### Typical Properties:

|                                       |           |
|---------------------------------------|-----------|
| SAE Grade                             | 15W-40    |
| Viscosity                             |           |
| @ 100°C, cSt                          | 14.5      |
| @ 40°C, cSt                           | 105       |
| @ -20°C, cP                           | 3,000     |
| Viscosity Index                       | 141       |
| Borderline Pumping Temperature        |           |
| °F                                    | -10       |
| °C                                    | -23       |
| High Temperature/High Shear Viscosity |           |
| @ 150°C, cP                           | 4.1       |
| Flash Point, °F (°C)                  | 420 (216) |
| API Gravity                           | 28.5      |
| Sulfated Ash, Weight %                | 1.8       |
| Total Base Number, ASTM D2896         | 14        |

**To Order D-A Products, Call 1-800-OIL-LUBE (1-800-645-5823)  
Or Fax orders to (317) 923-3884**

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