



# Blue Flame Synthetic Blend Diesel Engine Oil

**CHAMPION BLUE FLAME**® SAE 15W-40 synthetic blend heavy duty diesel engine oil is purpose built to be the most robust oil available for maximum engine lubrication and wear protection. It is designed to specifically address the extreme performance demands of turbo, or super-charged, diesel engines modified for higher compression for more horsepower and torque.

## KEY FEATURES:

- Synthetic blend SAE 15W-40 formula
- Exceeds API service levels CJ-4, CI-4, CH-4, CG-4, CF-4 and current OEM warranty requirements for extended service
- Meets, or exceeds, pre and post-2007 emissions requirements
- Safe for use in applications equipped with Exhaust Gas Recirculation (EGR) and diesel particulate filters (DPF) systems
- Advanced viscosity and soot control technology for shear stability and engine cleanliness
- High reserve alkalinity chemistry reduces corrosive wear and oil oxidation

## APPLICATIONS:

### Diesel Engine Service

- Drain intervals may be extended further with oil analysis.
- 2007-2009 Caterpillar C13 and C15 on-highway engines must follow OEM-recommended drain interval.
- 2007-2010 Dodge 6.7L, Ford 6.4L and GM 6.6L LMM light-duty diesel pickups must follow OEM-recommended drain interval. Drain intervals may be extended with oil analysis.

### Gasoline Engine Service

- Suitable for use in 4-stroke gasoline engines.
- Do not use in wet clutch applications

## SPECIFICATIONS & APPROVALS:

**API** CJ-4, CI-4 Plus, CI-4, CH-4, CG-4, SM  
**ACEA** E7-04, E6, E5-02, E4-99#2, E3 & E2  
**Detroit Diesel** 93K218, 93K215, 93K214  
**Caterpillar** SEBU 6385  
**Caterpillar** ECF-3, ECF-2\*, and ECF-1-a  
**Cummins** CES 20081Ford M2C171-C & D  
**General Motors** 9985930  
**Global** DHD-1

**JASO** DH-2, DH-1, MA  
**Mack** EO-O Premium Plus 2007  
**MAN** 271 & 3275  
**Mercedes Benz** p228.31  
**MTL** 5044 (MTU Type 1 and 2)  
**Renault** VI RLD-3  
**Volvo** VDS-4, VDS-3, & VDS-2

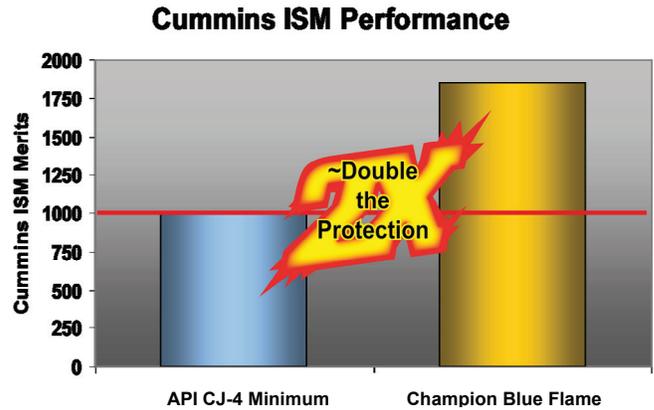
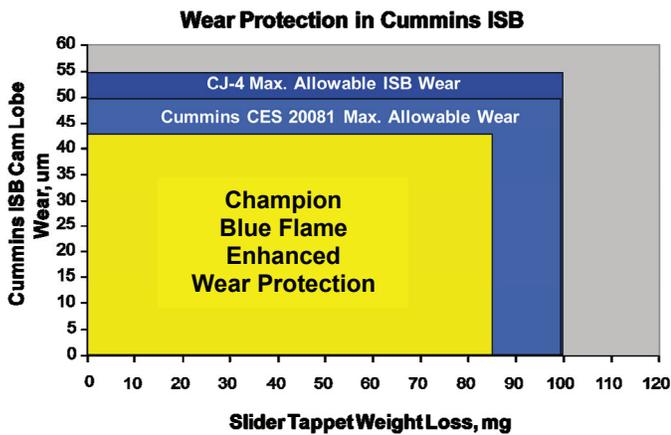
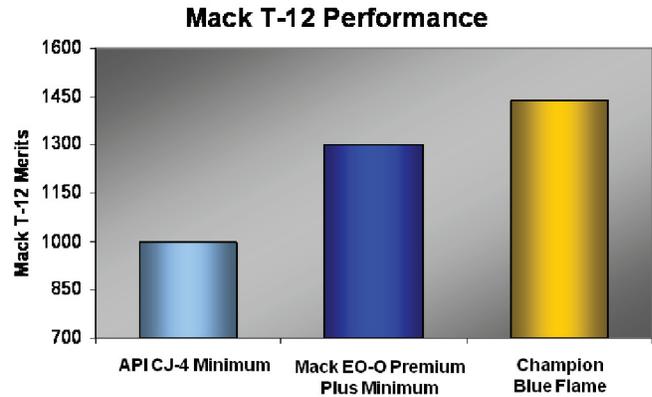
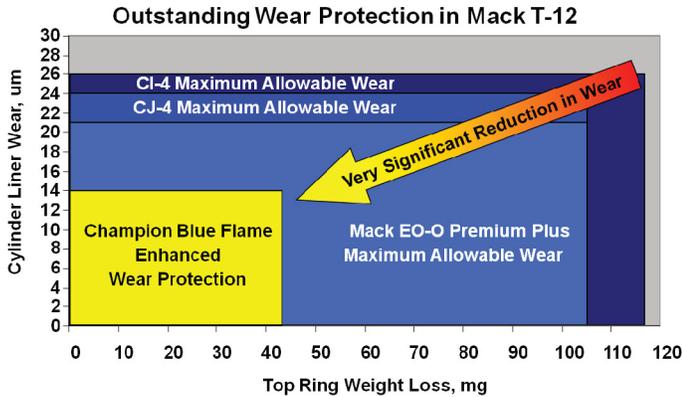


Note: Extended drain intervals are not recommended when using biofuels containing >10% Ethanol or 5% biodiesel (B5). Follow OEM drain intervals or extend drain intervals with oil analysis.

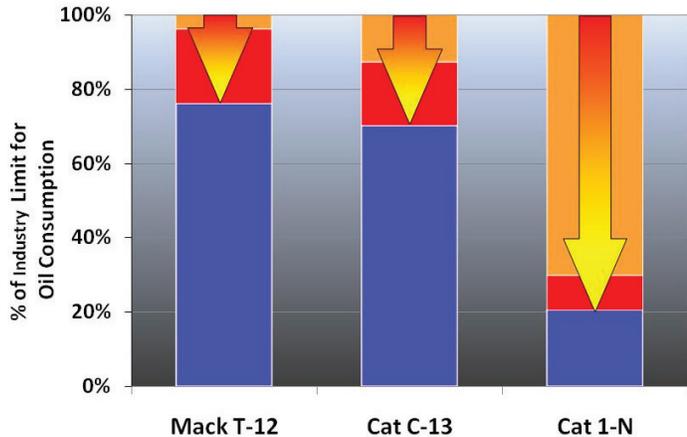
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**ORDER DESK 800-821-5693**

## SUPERIOR WEAR PROTECTION: A Closer Look

CHAMPION BLUE FLAME® SAE 15W-40 synthetic blend heavy duty diesel engine oil provides exceptional wear protection as demonstrated below and succeeded in significantly exceeding API and OEM specifications including Detroit Diesel, Mack/Volvo and Cummins.



### Oil Consumption Performance Across Industry Engine Tests



Champion Blue Flame's high performance shear stability chemistry delivers lower oil volatility and consumption than any conventional diesel engine oil and is proven to exceed OEM performance targets.

### TYPICAL PROPERTIES

| SAE Grade           | 15W-40 |
|---------------------|--------|
| Product Code        | 4358   |
| MSDS #              | 100    |
| TBN                 | 11.0   |
| Appearance/Color    | Blue   |
| Gravity API @ 60° F | 30.4   |
| cSt @ 40°C          | 113    |
| cSt @ 100°C         | 15.2   |
| Viscosity Index     | 140    |
| Pour Point ° F      | -30    |
| Flash Point ° F     | 438    |
| Sulfated Ash %wt    | <1.0   |