



CHAMPION ALL FLEET T[®] premium multi-grade heavy-duty motor oils represent a major quality upgrade in heavy-duty diesel lubricant. Formulated with 100% Group II base oils and the most advanced additive technology preferred by OEMs for extended service fill requirements. These motor oils satisfy all current OEM warranty requirements in both older diesel engines and 2007 emission compliant engines equipped with Exhaust Gas Recirculation (EGR) and diesel particulate filters (DPF).

Champion All Fleet T[®] offers improvements in reserve acid neutralizers for premium high temperature stability; more soot and anti-sludge control than most brands; and certified "preferred service fill engine oil" were applicable⁽¹⁾.

Champion All Fleet T[®] is designed for heavy duty, diesel-powered equipment from Detroit Diesel, Mack, Volvo, Cummins, Caterpillar, Navistar/International, Freight Liner, General Motors, John Deere, Case-New Holland, Kubota, Komatsu, and many more.

Benefits:

- *OEM Certified* for extended service drain⁽¹⁾
- More shear stable chemistry for improved viscosity control with premium anti-wear and cold flow protection during start up when wear is most significant
- Better TBN retention (alkaline reserve) than most CJ-4 brands, and all CI-4 Plus brands, ensuring protection required for 2007-emission compliant engines.
- Enhanced anti-friction technology for improved fuel economy compared to API CI-4 Plus brands
- Champion's continued tradition of maximizing cleanliness and minimizing wear
- Suitable for gasoline and diesel powered equipment in all types of service where fuel sulfur levels are below 500 ppm
- Compatible with API approved engine oils
- Meets, or exceeds, all major on and off-road engine manufacturers' warranty requirements

APPROVALS, SPECIFICATIONS, & TYPICAL PROPERTIES

- API** CJ-4, CI-4 Plus, CI-4, CH-4, CG-4, & CF-4
- API** SM, SL, SJ, SH, & SN⁽²⁾
- ACEA** E7-04, E6, E5-02, E4-99#2, E3 & E2
- Detroit Diesel** 93K218 & 93K214⁽⁵⁾ DDC 228.1, DDC 228.3
- Caterpillar** SEBU 6385⁽³⁾
- Caterpillar** ECF-3⁽⁵⁾, ECF-2⁽⁴⁾, and ECF-1-a⁽⁵⁾
- Cummins** CES 20081⁽⁵⁾ & all previous
- Ford** M2C171-C & D⁽³⁾
- General Motors** 9985930⁽³⁾
- Global** DHD-1
- JASO** MA, DH-1 & DH-2
- Mack** EO-O Premium Plus 2007⁽⁵⁾ & all previous
- Mack** EO-M Plus⁽³⁾
- MAN** 271 & 3275
- Mercedes Benz** p228.31
- MTL** 5044 (MTU Type 1 and 2)
- Renault** VI RLD-3 Compliant⁽⁵⁾
- Volvo** VDS-4, VDS-3, & VDS-2⁽⁵⁾

SAE Grade	AFT 10W-30	AFT 15W-40	HT SYNTHETIC FLEET
Product Code	4160	4158	4173
Gravity API @ 60° F	31.5	29.5	33.7
Pour Point ° F	-27	-27	-42
Flash Point ° F	410	415	450
SUS @ 104°F	313	482	397
SUS @ 212°F	62	80	73
cSt @ 40°C	68.0	115.8	87
cSt @ 100°C	10.7	15.5	13.9
TBN, mg KOH/gm	11	11	9
Sulfated Ash %wt	1.0 max	1.0 max	1.0 max
Color	Blue	Blue	Blue
Viscosity Index	147	141	165

Data is typical of current production. While future production will conform to specification, variations may occur.

(1) Consult engine manufacturers' documentation for motor oil performance, viscosity grade and oil change interval
 (2) Champion All Fleet T[®] 15W-40 and HT Synthetic Fleet 5W-40 only
 (3) Champion All Fleet T[®] 10W-30 only
 (4) ECF-2 is recommended in pre-2007 on-road and any off-road Caterpillar engines no bigger than the C3500
 (5) Champion All Fleet T[®] 15W-40 and HT Synthetic Fleet 5W-40 only

For more than 50 years, Champion All Fleet T[®] continues delivering premium performance and value in diesel engine lubricant protection

Call Our Friendly Sales Representatives for Available Package Sizes

4160 4158

Call For Available Package Sizes

Effective 12/12

**CHAMPION BRANDS, L.L.C. › 1001 GOLDEN DRIVE › CLINTON, MO 64735
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