



## Powers-All Fleet Heavy Duty Diesel Engine Oil

**DESCRIPTION:** Fleet Heavy Duty Diesel Engine Oils - Monogrades are formulated with high quality base oils and an advanced additive technology that provides very good performance and protection in high output heavy-duty diesel engines where a single viscosity grade is specified. They are fortified with latest technology detergents, dispersants, anti-wear, and anti-corrosion additives to provide protection against engine sludge, varnish formation, scuffing and wear, and high temperature oil thickening.

- BENEFITS:**
- Resists foaming
  - Very good wear protection of valve train components and bearings
  - Excellent oxidation resistance to protect against sludge and varnish build-up
  - Equipment operating in severe and off-road environments, mining, construction, agriculture
  - Manual transmissions and hydraulic systems where Allison C3, C4 and/or CAT TO-2 performance is required

**APPLICATION:** Fleet Heavy Duty Diesel Engine Oils are available in three single-viscosity grades that contain the same quality base oils and high performance additives used in most of today's multi-viscosity diesel engine oils. Specific viscosity grades are used in power-shift, manual, and hydrostatic transmissions, final drives, and hydraulic systems where the equipment manufacturer designates the use of heavy-duty, detergent-type engine oils. Always consult **Owners' Manuals** for specific viscosity grade and **API Service Category** recommendations.

### Typical Properties:

Fleet Heavy Duty Diesel Engine Oils

SAE Grade	Test Method	10W	30	40
API Service – Obsolete Categories		CF/SL	CF, CF-2, SL	CF, CF-2, SL
Material Code		PA331301	PA331303	PA331304
Gravity, API	ASTM D-4052	30.5	28.6	27.9
Density, lbs/gal	Calculated	7.27	7.36	7.39
Viscosity, cSt @ 40°C	ASTM D-445	41.0	101.0	145.0
Viscosity, cSt @ 100°C	ASTM D-445	7.0	11.5	14.5
Viscosity Index	ASTM D-2270	131	101	98
CCS @ -25 C, cP	ASTM D-5293	4,000	----	----
TBN	ASTM D-974	8.0	8.0	8.0
Pour Point, °F	ASTM D-5949	-33	-15	-5
Flash Point, COC, °F	ASTM D-92	420	450	450

*\*Note: Values shown are typical only and do not constitute a specification. Minor variations in product are to be expected in normal manufacturing. Always confirm with the original manufacturer's recommendation for proper equipment operating requirements.*



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