



HEAVY-DUTY DIESEL FULL SYNTHETIC MOTOR OIL

SAE 5W-40

DESCRIPTION:

PEAK® Heavy Duty Diesel 5W-40 CK-4/SN Full Synthetic Motor Oil is designed to meet all OEM's latest diesel engine high temperature performance demands and deliver real fuel economy and cold weather performance. Recommended for use in high-performance, low-emission diesel engines equipped with EGR (Exhaust Gas Recirculation), Diesel Particulate Filters and SCR (Selective Catalytic Reduction) systems.

BENEFITS:

- Meets API Service Classifications CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, CF-4, CF and is suitable for use in gasoline engines specifying API Service Classifications SN, SM, SL & SJ
- Approved for OEM extended service drain intervals in on-highway medium to heavy duty engine applications.
- Premium low temperature pumpability provides faster oil flow for cold weather start-up protection.
- High viscosity index delivers significant fuel savings benefit and same superior engine lubrication protection as SAE 15W-40.
- Enhanced Oxidation Control - dual anti-oxidant chemistry extends stay-in-grade viscosity protection life. Combats acid formation and thermal viscosity breakdown.
- Superior Corrosion Prevention - robust chemistry boosts and extends reserve alkalinity capability neutralizing harmful corrosive acid formation up to 2X longer than previous API CJ-4 heavy duty motor oils.
- Outstanding Deposit Control - outstanding piston and cylinder deposit control surpassing all new performance standards for engine cleanliness.
- Improved Oil Aeration Control - improves ability to lubricate parts, mitigate oil flow cavitation and control oxidation effectively.

APPLICATION:

Meets API CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4/SN, SM, SL, SJ and OEM requirements where SAE 5W-40 oil meeting the following specifications is required or optional:

ACEA E9-2012, E7, MACK/VOLVO E05-4.5, E0-O Premium Plus, E0-O, VDS 4.5, VDS-4, VDS-3, CATERPILLAR ECF-3, ECF-2, CUMMINS CES 20086, CES 20081, DETROIT DIESEL DFS 93K222, 93K218, DAIMLER MB 228.31, MAN M3575, MTU CATEGORY 2.1 and RENAULT RLD-4, RLD-3

SHIPPING INFORMATION:

Pack	3/1 Gallon	Bag in a Box	55 Gallon Drum
Unit Weight (lbs.)	8.17	43	450
Case/Pallet Weight*	24.86/1,442*	1806**	1850*
Units per Pallet	168	-	4
Cases per Pallet	56	42	-
Units per Truck	3528	-	84
Cases/Pallets per Truck	1176/21	924/22	21
Case Size (inches)	12.4 x 80 x 11.8	19 x 13 x 7.25	-
Cases per Row/Rows High	14/4	7/6	-
Pallet Size (inches)	40 x 48 x 54.3	40 x 48	46 x 48 x 40.50

**weight based on 42 units/pallet

*Includes pallet weight of 50 lbs.

PRODUCT INFORMATION:

Typical Properties	5W-40	Gallon Part#	P5MK43G	Drum Part#	P5MK41
API Classification	CK-4/SN	Label UPC Code	0-74804-06405-6	Drum UPC Code	0-74804-06403-2
API Gravity (ASTM D1298)	33.57	Carton UPC Code	0-74804-16405-3		
Viscosity @ 40°C, cSt	8775	SCC-14 Code	1-00-74804-06405-3	330 Gal Tote Part#	P5MK42
Viscosity @ 100°C, cSt	14.76			Tote UPC Code	0-74804-06404-9
Viscosity Index	177	Bag in a Box Part#	P5MK4BX6		
Noack Volatility	13	Bag in a Box UPC Code	0-74804-06708-7	Bulk Part#	P5MK40
Pour Point, °C	-45				
Sulfated Ash wt%	0.99				
TBN	10				



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REV 201805





HEAVY-DUTY DIESEL FULL SYNTHETIC MOTOR OIL

SAE 5W-40

PEAK Commercial & Industrial Heavy Duty Motor Oils meet, and exceed, the demand for robust motor oil that resists oxidation from severe exposure to high operating temperatures and mechanical agitation. In 80,000 mile oil drain interval field testing PEAK Commercial & Industrial Heavy Duty Motor Oils continued providing excellent wear protection and maintained engine cleanliness.

PEAK Heavy Duty Diesel Motor Oil	Conventional & Synthetic Blend	Full Synthetic	Conventional & Synthetic Blend
SAE Grade	15W-40	5W-40	10W-30
API Service CK-4	X	X	X
API Suitable Service CJ-4, CI-4 PLUS, CI-4, CH-4	X	X	X
API Suitable Service SN, SM, SL, SJ	X	X	
ACEA E9-2012, E7	X	X	X
Mack EOS-4.5, EO-O Premium Plus, EO-N	X	X	X
Volvo VDS-4.5, VDS-4, VDS-3	X	X	X
Caterpillar ECF-3, ECF-2	X	X	X
Cummins CES 20086, 20081	X	X	X
Detroit Diesel DFS 93K222, 93K218	X	X	X
Daimler MB 228.31	X	X	X
Ford WSS M2C171-F1	X		X
MAN M3575	X	X	X
MTU Category 2.1	X	X	X
Renault RLD-4, RLD-3	X	X	X

OEM Diesel Engine Oil Drain Interval (ODI) Recommendation Summary

Refer to OEM service literature for official oil drain interval details and recommended engine oil viscosity grade.

PEAK Heavy Duty Diesel Motor Oil		Conventional & Synthetic Blend	Full Synthetic	Conventional & Synthetic Blend
SAE Grade		15W-40	5W-40	10W-30
API Service CK-4		X	X	X
OEM	SERVICE	ODI		ODI
Cummins	Light (> 6.5 MPG)	50K Up to 80K w/Oil Guard		Contact OEM
	Normal (5.5 – 6.5 MPG)	35K		
	Severe (< 5.5 MPG)	25K		
Detroit Diesel	Efficient Long Haul (>7.0 MPG)	75K (DD15) 65K (DD13)		Contact OEM
	Long Haul (>6.0 MPG)	60K (DD15) 55K (DD13)		
	Short Haul (5.1-5.9 MPG)	45K (DD15) 40K (DD13)		
	Severe (<5 MPG)	35K		
Mack Volvo	Line Haul (6.1-7.0 MPG)	55K Idle >30%, use next shorter ODI		Contact OEM
	Regional Haul (4.8 – 6.0 MPG)	45K Idle >30%, use next shorter ODI		
	Heavy Haul (3.8-4.8 MPG)	30K		
Navistar	Light (> 6.5 MPG)	40K		Contact OEM
	Moderate (5.0 – 6.5 MPG)	30K		
	Severe (<5.0 MPG)	18K		
PACCAR	Normal, < 20% Idle	75K		Contact OEM
	Normal, > 20% Idle	50K		
	Severe	30K		
GM	Duramax 6.6L	75K Follow Oil-Life Monitor		Contact OEM
Ford	Power Stroke 6.7L	Up to 10K Recommended for severe duty or biodiesel applications. Follow Oil-Life Monitor		Up to 10K Follow Oil-Life Monitor

ODI = Oil Drain Interval.

K = 1,000 miles