



SINCE
1879

WOLF'S HEAD®

PASSENGER CAR MOTOR OILS

Wolf's Head SYN-PACK 100% Synthetic 5W-20 and 5W-30 Motor Oils are the latest additions to our more-than-a-century-old (1879) line of quality engine oils and lubricants. They are 21st Century oils for tough 21st Century work – working overtime to protect your expensive and prized engine with our exclusive Wolf's Head "Run with the Pack" technology! Syn-Pack Synthetic Oils offer the ultimate in engine protection for both gasoline and diesel engines. Formulated with state-of-the-art additives and 100% synthetic base stocks, Wolf's Head Syn-Pack Full-Synthetic 5W-20 and 5W-30 Motor Oils have been carefully developed to meet the most current API Service Classification. All Wolf's Head Syn-Pack Full-Synthetic Motor Oils are formulated to meet or exceed all new car manufacturers' warranty requirements as well as stringent industry standards such as API SM/CF, ILSAC GF-4 and ACEA A1/B1, A5/B5*. These oils are also formulated to exceed the standard for the Thermal Engine Oil Stability Test (TEOST MHT) and the Ford M2C 930-A, which supersedes M2C153-H requirements. The special low-phosphorous level design ensures that these superior oils are environmentally friendly and will help to extend the life of the expensive catalytic converters. These high-performance full-synthetic oils offer the ultimate in engine protection; especially for engines operating in the most extreme driving and operating conditions and in the worst ambient operating temperatures from the extreme arctic cold to the searing desert heat.

The new Wolf's Head Syn-Pack Full-Synthetic 5W-20 and 5W-30 Motor Oils more than exceed the stringent lubricating performance requirements of American, European, Korean, Japanese and other worldwide engine manufacturers.

*ACEA A5/B5: 5W30 is the preferred SAE Grade for ACEA A5/B5

Wolf's Head Super-Duty Motor Oils are multi-viscosity oils that provide superior engine protection no matter what the operating temperature. Wolf's Head Super-Duty Motor Oils protect domestic and imported vehicles and equipment powered with either gasoline or diesel engines even those that are turbo-charged or super-charged equally well. This high quality oil has been specifically formulated to meet or exceed all new car manufacturers' warranty requirements as well as the stringent industry standards API SM/CF - ILSAC GF-4 and ACEA A5/B5, A3/B4, A3/B3, A1/B1 / C3, C2 and C1. These oils are also formulated to exceed the standard for the Thermal Engine Oil Stability Test (TEOST MHT) and the Ford M2C 930-A, which supersedes M2C153-H requirements. Wolf's Head Super-Duty will protect with equal vigor both new, modern, close-tolerance engines and older, high-mileage engines running in a wide range of operating temperatures and conditions. These high performance motor oils exceed the stringent lubricating performance requirements of American, European, Korean, Japanese and other worldwide engine manufacturers.

*ACEA A5/B5: 5W30 is the preferred SAE Grade for ACEA A5/B5

Wolf's Head Heavy-Duty Motor Oils are single grade or straight-viscosity motor oils. They are a balanced blend of high VI base stocks and an advanced additive package to deliver superior performance. They provide thermal and oxidation stability, deposit control, anti-wear protection, corrosion protection and improved pumpability. Wolf's Head Heavy Duty Motor Oils may be used in turbo-charged, super-charged or naturally aspirated foreign and domestic engines recommending an API SM/CF and ACEA A2/B2, A1/B1 mono-grade engine oil. These heavy duty motor oils exceed the stringent lubricating performance requirements of American, European, Korean, Japanese and other worldwide engine manufacturers.

Wolf's Head Hydraulic and Compressor Oil - Non-Detergent Motor Oils are a quality line of straight mineral crankcase engine oils and general purpose oils. Wolf's Head Non-Detergent Motor Oils are built from high-quality mineral base stocks and may be used wherever an API SA/SB mono-grade oil is recommended.



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TYPICAL INSPECTION DATA

	API Gravity	Flash Point, °C.	Viscosity cSt @ 100C	Viscosity cSt @ 40C	VI	Pour Point, °C.
Syn-Pack Full-Synthetic						
5W-20	34.0	210	6.80	38.0	140	-42
5W-30	34.6	210	10.5	60.0	160	-42
Super Duty						
5W-20	31.3	210	6.50	37.0	130	-42
5W-30	30.5	210	10.50	60.0	145	-39
10W-30	29.5	215	10.50	69.0	140	-35
10W-40	30.0	215	13.50	97.0	145	-32
20W-50	28.9	220	18.00	165.0	125	-18
Heavy Duty						
30	28.5	220	11.80	103.0	103	-21
40	28.0	230	14.60	141.0	103	-15
Non-Detergent						
30	23.2	210	10.10	-	-	-12

PERFORMANCE APPLICATION CHART

SPECIFICATIONS	Syn-Pack 100% Synthetic	Super Duty	Heavy Duty	Non-Detergent
API:				
SM	✓	✓	✓	-
SL	✓	✓	✓	-
SJ	✓	✓	✓	-
SG	✓	✓	✓	-
SF	✓	✓	✓	-
SB	✓	✓	✓	✓
CF/CF-2	✓	✓	✓	-
ILSAC:				
GF-4	✓	✓	-	-
GF-3/ GF-2	✓	✓	-	-
ACEA:				
A5/B5, A3/B4, A3/B3, C3, C2, C1	✓	✓	✓	-
	✓	✓	✓	-
Ford:				
M2C 929 A (M2C 205A)	✓	✓	-	-
M2C 930A (M2C 153H)	5W-20, 5W-30*	5W-20, 5W-30*	-	-
DaimlerChrysler:				
MS 6395K	✓	✓	-	-
MB 229.1	✓	✓	-	-
MB 229.3	5W-30	5W-30	-	-
MB 229.51	✓	✓	-	-
General Motors:				
GM 4718M	5W-30	5W-30	-	-
GM 6094M	✓	✓	-	-
Volkswagen:				
VW 502	✓	✓	-	-
VW 503	5W-30	5W-30	-	-
VW 505	✓	✓	-	-
VW 506	5W-30	5W-30	-	-
BMW:				
LL-O/M54	✓	✓	-	-
CID AA-52039	✓	✓	✓	-
Mil-L-2104-B	✓	✓	✓	-
Mil-L-46152	✓	✓	✓	-

* 5W-20 preferred viscosity grade for M2C 903A (M2C 153H).

Some performance levels are limited by viscosity grades. Please consult the Wolf's Head Performance Application Chart, the Wolf's Head Inspection Data Table for the appropriate Wolf's Head product or contact your Wolf's Head District Manager for more complete information and recommendations.

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