

VALVOLINE™ DAILY PROTECTION™ MOTOR OIL

(Formerly marketed in North America as PREMIUM CONVENTIONAL)

Valvoline Daily Protection Motor Oils SAE 5W-20 and SAE 5W-30 are formulated with advanced additive technology and highly refined, premium quality synthetic blend basestock formulation that protect today's engines against undesirable deposits, contamination, and viscosity and thermal breakdown under severe service conditions. They meet the performance requirements of virtually all naturally aspirated, turbocharged and supercharged gasoline fueled passenger cars and light duty trucks, including European and Japanese vehicles*.

Valvoline Daily Protection Motor Oils meet the newly adopted API SN PLUS classification, protecting GDI (Gasoline Direct Injection) engines from low-speed pre-ignition (LSPI).

Advantages:

- **High Temperature Protection:** Resists breakdown in the most severe engine environments.
- **Low Temperature Protection:** Flows easily at low temperatures, reducing wear at start-up.
- **High Detergency:** Fights formation of sludge and varnish deposits that reduce engine life.
- **Wear Protection:** Contains anti-wear additives that dramatically reduce engine wear.
Meets European and Japanese wear requirements.
- **Turbo Approved:** Provides excellent protection to critical turbo unit components.
- **Fuel Economy:** Low-friction formulation supporting strong fuel economy performance.

Approvals and Licenses:

	SAE 5W-20	SAE 5W-30
API SN/SM	X	X
ILSAC GF-5 & GF-4	X	X
Resource Conserving	X	X
FORD WSS-M2C946-A	--	X
FORD WSS-M2C945-A	X	--
GM 6094M **	X	X
Chrysler MS-6395	X	X
Honda Feb. 2001 Spec.	X	--

Typical Properties:

	SAE 5W-20	SAE 5W-30
KV100 (cSt)	8.5	11.0
KV40 (cSt)	50.0	63.0
Viscosity Index	146	168
Density (lbs/gal)	7.18	7.18
CCS (cP @ °C)	<6100@-30°C	<6100@-30°C
Pour Point (°C)	≤ -36 °C	≤ -36 °C
TBN (meq KOH/g)	7.3	7.3
Zinc (ppm)	830	830
Phosphorous (ppm)	760	760
Sulfated Ash (mass %)	0.80	0.80
Noack (% loss)	14.5	14.5

* VALVOLINE MOTOR OILS (DAILY PROTECTION) are not recommended for use in diesel fueled vehicles. Use Valvoline All Fleet Plus or Valvoline Advanced Full Synthetic motor oils (see owner's manual)

**Obsolete

See operator's manual for recommended viscosity grade and API service classification.

This information only applies to products manufactured in the following location(s): USA, Canada.

VALVOLINE™ DAILY PROTECTION™ MOTOR OIL

(Formerly marketed in North America as PREMIUM CONVENTIONAL)

Valvoline™ Motor Oil (Daily Protection™) multigrades are formulated with advanced additive technology and highly refined, premium quality basestocks that protect today's engines against undesirable deposits, contamination, and viscosity and thermal breakdown under severe service conditions. They meet the performance requirements of virtually all naturally aspirated, turbocharged and supercharged gasoline fueled passenger cars and light duty trucks, including European and Japanese vehicles*.

Valvoline Daily Protection Motor Oils meet the newly adopted API SN PLUS classification, protecting GDI (Gasoline Direct Injection) engines from low-speed pre-ignition (LSPI).

Advantages:

- **High Temperature Protection:** Resists breakdown in the most severe engine environments.
- **Low Temperature Protection:** Flows easily at low temperatures, reducing wear at start-up.
- **High Detergency:** Fights formation of sludge and varnish deposits that reduce engine life.
- **Wear Protection:** Contains anti-wear additives that dramatically reduce engine wear.
Meets European and Japanese wear requirements.
- **Turbo Approved:** Provides excellent protection to critical turbo unit components.

Approvals and Licenses:

	SAE 10W-30	SAE 10W-40	SAE 20W-50
API SN/SM	X	X	X
Meets engine & emission system protection requirements of ILSAC GF-5	X	X	X
ILSAC GF-4	X	--	--
Resource Conserving	X	--	--
GM 6094M **	X	--	--
Chrysler MS-6395	X	--	--

Typical Properties:

	SAE 10W-30	SAE 10W-40	SAE 20W-50
KV100 (cSt)	10.5	15.1	18.5
KV40 (cSt)	69.7	104.0	170.9
Viscosity Index	137	152	121
Density (lbs/gal)	7.26	7.24	7.34
CCS (cP @ °C)	<5900@-25°C	<6200@-25°C	<9200@-15°C
Pour Point (°C)	≤ -30 °C	≤ -30 °C	≤ -24 °C
TBN (meq KOH/g)	7.3	7.5	7.5
Zinc (ppm)	830	830	830
Phosphorous (ppm)	760	760	760
Sulfated Ash (mass %)	0.80	0.80	0.80
Noack (% loss)	14.5	15.0	15.0

* VALVOLINE MOTOR OILS (DAILY PROTECTION) are not recommended for use in diesel fueled vehicles. Use Valvoline All Fleet Plus or Valvoline Advanced Full Synthetic motor oils (see owner's manual)

**Obsolete

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VALVOLINE™ DAILY PROTECTION™ MOTOR OIL

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Valvoline™ Motor Oil (Daily Protection™) monogrades are formulated with advanced additive technology and highly refined, premium quality basestocks that protect today's engines against undesirable deposits, contamination, and viscosity and thermal breakdown under severe service conditions. Valvoline SAE 30, SAE 40, and SAE 50 offer excellent protection to gasoline engines operating under high temperature and heavy-duty service (hauling trailers, boats or RVs for sustained periods)*.

Valvoline Daily Protection Motor Oils meet the newly adopted API SN PLUS classification, protecting GDI (Gasoline Direct Injection) engines from low-speed pre-ignition (LSPI).

Advantages:

- **High Temperature Protection:** Resists breakdown in the most severe engine environments.
- **High Detergency:** Fights formation of sludge and varnish deposits that reduce engine life.
- **Wear Protection:** Contains anti-wear additives that dramatically reduce engine wear.
Meets European and Japanese wear requirements.
- **Turbo Approved:** Provides excellent protection to critical turbo unit components

Approvals and Licenses:

	SAE 30	SAE 40	SAE 50
API SN/SM	X	X	X
Chrysler MS-6395	X	--	--
Other Applications	Manual transmissions, hydraulic systems, air compressors, and circulating systems where the manufacturer recommends use of a motor oil. Meets engine and emission system protection requirements of ILSAC GF-5.		

Typical Properties:

	SAE 30	SAE 40	SAE 50
KV100 (cSt)	10.3	13.5	20.0
KV40 (cSt)	82.0	127.0	223
Viscosity Index	107	101	103
Density (lbs/gal)	7.33	7.35	7.35
CCS (cP @ °C)	--	--	--
Pour Point (°C)	≤ -27 °C	≤ -27 °C	≤ -15 °C
TBN (meq KOH/g)	7.5	7.5	7.5
Zinc (ppm)	830	830	830
Phosphorous (ppm)	760	760	760
Sulfated Ash (mass %)	0.80	0.80	0.80
Noack (% loss)	--	--	--

* VALVOLINE MOTOR OILS (DAILY PROTECTION) are not recommended for use in diesel fueled vehicles. Use Valvoline All Fleet Plus or Valvoline Advanced Full Synthetic motor oils (see owner's manual)

See operator's manual for recommended viscosity grade and API service classification.

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