



UNIVERSAL PLUS ENGINE OILS--Monogrades (10 TBN HD Engine Oil)

UNIVERSAL PLUS monograde engine oils are superior quality engine oils blended from highly refined paraffinic mineral oils and specially selected additives. They are designed to meet the requirements of all major diesel engine manufacturers. They further meet the performance requirements of gasoline engines.

Today's turbocharged diesel engines develop greater power per cubic inch of piston displacement than ever before. Also, today's driving conditions result in increased idling time. These factors create extreme demands on today's diesel engine oils. **UNIVERSAL PLUS** engine oils provide extra protection in low temperature operation as well as grueling high speed, high temperature operation.

UNIVERSAL PLUS engine oils have a total base number (TBN) of 10. This high TBN reduces piston deposits, maintains power of low emission engines and reduces deposits, especially in the critical piston ring grooves. It also enables longer oil drain intervals than other monogrades with lower TBNs. The high TBN has exceptional detergency that keeps soot, sludge and varnish commonly encountered in engines operating on low-sulfur diesel fuel under control.

UNIVERSAL PLUS engine oils exhibit excellent low temperature flow properties that help reduce engine wear at cold start-up when engines are most susceptible to damage.

The multi-purpose aspect of **UNIVERSAL PLUS** engine oils benefits fleets with varying types of equipment. These engine oils are suitable for nearly all engines, and most truck transmissions as well. They allow fleet operators to satisfy both the warranty and operating requirements while maintaining the least number of lubricants in inventory.

BENEFITS:

- 10 TBN - REDUCED ENGINE WEAR AND DEPOSITS
- EXCELLENT FLOW AT LOW TEMPERATURE
- CLEANER ENGINES
- LONG DRAIN INTERVALS
- IDEAL FOR MIXED FLEETS

APPLICATIONS:

UNIVERSAL PLUS engine oils are recommended for both diesel and gasoline engines that operate on- and off-highway. They are also suitable for many transmissions, air compressors, or hydraulic applications requiring high quality engine oil. **UNIVERSAL PLUS** monograde engine oils meet or exceed the following requirements:

- API CF-2, CF/SL (SAE 30, 40, 50)
- API CF/SL (SAE 20W)
- API CF (SAE 10W)
- API CD (all grades)
- API CE (10, 20, 30)
- Allison C-4 (SAE 10, 20, 30)
- Caterpillar TO-2, Series III
- Detroit Diesel 6V-92TA (Ex. SAE 10W, 20W)
- CID A-A-52306A or 52306 (SAE 30, 40)
- Chrysler MS 6395-F (SAE 30)
- Navistar International (SAE 30)
- GM 6094-M (SAE 30, 40)



FINA UNIVERSAL PLUS ENGINE OILS--Monogrades (10 TBN HD Engine Oil)

TYPICAL CHARACTERISTICS

SAE Viscosity Grade	10W	20W	30	40	50
API Service*	- CF CD,CE	- CF/SL CD,CE	CF-2 CF/SL CD,CE	CF-2 CF/SL CD	CF-2 CF/SL CD
Product Code	11810	11820	11830	11840	11850
API Gravity (ASTM D-1298)	30.1	29.8	29.3	28.5	27.5
Viscosity (ASTM D-445):					
cSt @ 40°C	36.9	70.5	101	151	220
cSt @ 100°C	6.4	8.9	11.6	14.8	18.7
SUS @ 100°F	191	370	534	800	1,170
SUS @ 210°F	48	56	65	79	96
Brookfield viscosity (D 5293)					
cPs @ -25°C (7000 max)	pass	--	--	--	--
cPs @ -15°C (9500 max)	--	pass	--	--	--
Viscosity Index (ASTM D-2270)	126	99	99	97	95
Pour Point (ASTM D-97)					
°F	-22	-20	0	5	10
(°C)	(-30)	(-29)	(-18)	(-15)	(-12)
Flash Point (ASTM D-92)					
°F	395	420	430	450	460
(°C)	(202)	(216)	(221)	(232)	(238)
Color (ASTM D-1500)	5.5	5.5	6.0	6.0	6.5
Sulfated Ash (ASTM D-874)	1.2	1.2	1.2	1.2	1.2
Total Base Number (ASTM D-2896)	10.5	10.5	10.5	10.5	10.5

The above data is subject to usual manufacturing variation. For more information and availability, call 1-800-442-LUBE.
10/07/02