

# NOVALINE LUBRICANTS

**NL**





# NOVALINE

## NOVALINE MOTOR OIL SAE 5W-20 API SN/CJ-4

### Premium Performance Synthetic Engine Oils

#### Properties

NOVALINE MOTOR OIL SAE 5W-20 API SN/CJ-4 is enhanced-premium synthetic motor oils meeting the latest industry engine oil specifications, They are designed to provide an excellent level of protection and performance under the most demanding conditions.

#### Features and Benefits

- Superior engine protection during start up
- Superior engine wear protection
- Can be used in both Diesel & LPG engines
- Provides improved fuel economy
- Minimizes sludge formation
- Suitable for hydraulically actuated injectors
- Reduces wear by controlling soot deposits
- Extension of engine's lifetime
- Reduced high temperature engine deposits
- Reduces wear due to advanced base oils
- Safe for wet clutch motorcycles
- Delivers unsurpassed levels of protection across a variety of driving conditions and temperatures



#### Application

Especially formulated to give you confidence of protection beyond that of conventional oils. Particularly recommended for Latest gasoline engine technologies, Passenger cars, SUV's, light trucks and vans Stop and Go City Driving, Normal to severe operating conditions, Turbo-Chargers & High Performance Engines.

#### Recommendations /Specifications

**International Standards:** API SN/CJ-4, SN/CF, SM/CI-4, SM/CF, SL, ACEA: A3/B3, A3/B4, C3, ILSAC GF-5, GF-4, JASO SG+

Meets or exceeds: Opel GM-LL-A/B-025, RN0700, RN0710, MB 229.3/229.1/229.31, Fiat 9.55535-N2 & 9.55535-M2/S2, BMW LL-01/ LL-04, VW 502.00/505.00, Ford WSS-M2C937, Chrysler MS 11106, WSS-M2C947-A, WSS-M2C945-A, Porsche A40

Meets quality requirements of most gasoline engine manufacturers in the USA, Europe, Japan and Korea

Typical Data	Unit	Test Method	Results
SAE Grade			5W20
Density at 15°C	g/cm <sup>3</sup>	ASTM D4052	0.856
Cold Cranking Viscosity(CCS) @-30°C	mPa s	ASTM D5293	5380
Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	50.73
Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	9.1
Viscosity Index	-	ASTM D2270	162
Flash Point	°C	ASTM D92	224
Pour Point	°C	ASTM D97	-42
Total Base Number	mg KOH/g	ASTM D2896	10.2

Note: the information contained herein is subject to change without notification. Typical Properties may vary slightly.

ATL/C-PDS/001/YTC/1\*, 10.12.21, Page 1/1

\* supersedes all previous versions

**Health and Safety** Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.





# NOVALINE

## NOVALINE MOTOR OIL SAE 5W-30 API SN/CJ-4

### Premium Performance Synthetic Engine Oils

#### Properties

NOVALINE MOTOR OIL SAE 5W-30 API SN/CJ-4 is enhanced-premium synthetic motor oils meeting the latest industry engine oil specifications, They are designed to provide an excellent level of protection and performance under the most demanding conditions.

#### Features and Benefits

- Superior engine protection during start up
- Superior engine wear protection
- Can be used in both Diesel & LPG engines
- Provides improved fuel economy
- Minimizes sludge formation
- Suitable for hydraulically actuated injectors
- Reduces wear by controlling soot deposits
- Extension of engine's lifetime
- Reduced high temperature engine deposits
- Reduces wear due to advanced base oils
- Safe for wet clutch motorcycles
- Delivers unsurpassed levels of protection across a variety of driving conditions and temperatures



#### Application

Especially formulated to give you confidence of protection beyond that of conventional oils. Particularly recommended for Latest gasoline engine technologies, Passenger cars, SUV's, light trucks and vans Stop and Go City Driving, Normal to severe operating conditions, Turbo-Chargers & High Performance Engines.

#### Recommendations /Specifications

**International Standards:** API SN/CJ-4, SN/CF, SM/CI-4, SM/CF, SL, ACEA: A3/B3, A3/B4, C3, ILSAC GF-5, GF-4, JASO SG+

Meets or exceeds: Opel GM-LL-A/B-025, RN0700, RN0710, MB 229.3/229.1/229.31, Fiat 9.55535-N2 & 9.55535-M2/S2, BMW LL-01/ LL-04, VW 502.00/505.00, Ford WSS-M2C937, Chrysler MS 11106, WSS-M2C947-A, WSS-M2C945-A, Porsche A40

Meets quality requirements of most gasoline engine manufacturers in the USA, Europe, Japan and Korea

Typical Data	Unit	Test Method	Results
SAE Grade			5W30
Density at 15°C	g/cm <sup>3</sup>	ASTM D4052	0.859
Cold Cranking Viscosity(CCS) @-30°C	mPa s	ASTM D5293	6000
Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	65.1
Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	11.1
Viscosity Index	-	ASTM D2270	164
Flash Point	°C	ASTM D92	224
Pour Point	°C	ASTM D97	-42
Total Base Number	mg KOH/g	ASTM D2896	10.2

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ATL/C-PDS/002/YTC/1\*, 10.12.21, Page 1/1

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# NOVALINE

## NOVALINE MOTOR OIL SAE 5W-40 API SN/CJ-4

### Premium Performance Synthetic Engine Oils

#### Properties

NOVALINE MOTOR OIL SAE 5W-40 API SN/CJ-4 is enhanced-premium synthetic motor oils meeting the latest industry engine oil specifications, They are designed to provide an excellent level of protection and performance under the most demanding conditions.

#### Features and Benefits

- Superior engine protection during start up
- Superior engine wear protection
- Can be used in both Diesel & LPG engines
- Provides improved fuel economy
- Minimizes sludge formation
- Suitable for hydraulically actuated injectors
- Reduces wear by controlling soot deposits
- Extension of engine's lifetime
- Reduced high temperature engine deposits
- Reduces wear due to advanced base oils
- Safe for wet clutch motorcycles
- Delivers unsurpassed levels of protection across a variety of driving conditions and temperatures



#### Application

Especially formulated to give you confidence of protection beyond that of conventional oils. Particularly recommended for - Latest gasoline engine technologies, Passenger cars, SUV's, light trucks and vans Stop and Go City Driving, Normal to severe operating conditions, Turbo-Chargers & High Performance Engines.

#### Recommendations /Specifications

**International Standards:** API SN/CJ-4, SN/CF, SM/CI-4, SM/CF, SL, ACEA: A3/B3, A3/B4, C3, ILSAC GF-5, GF-4, JASO SG+

Meets or exceeds: Opel GM-LL-A/B-025, RN0700, RN0710, MB 229.3/229.1/229.31, Fiat 9.55535-N2 & 9.55535-M2/S2, BMW LL-01/ LL-04, VW 502.00/505.00, Ford WSS-M2C937, Chrysler MS 11106, WSS-M2C947-A, WSS-M2C945-A, Porsche A40

Meets quality requirements of most gasoline engine manufacturers in the USA, Europe, Japan and Korea

Typical Data	Unit	Test Method	Results
SAE Grade			5W40
Density at 15°C	g/cm <sup>3</sup>	ASTM D4052	0.859
Cold Cranking Viscosity(CCS) @-30°C	mPa s	ASTM D5293	6000
Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	92.5
Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	14.5
Viscosity Index	-	ASTM D2270	163
Flash Point	°C	ASTM D92	224
Pour Point	°C	ASTM D97	-42
Total Base Number	mg KOH/g	ASTM D2896	10.2

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ATL/C-PDS/003/YTC/1\*, 10.12.21, Page 1/1

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# NOVALINE

## NOVALINE MOTOR OIL SAE 10W-40 API SN/CJ4

### Premium Quality Passenger Car Motor Oil

#### Properties

NOVALINE MOTOR OIL SAE 10W-40 API SN/CJ4 is premium quality engine oil developed to the highest standards of lubricant quality, reliability and dependable protection. NOVALINE MOTOR OIL SAE 10W-40 API SN/CJ4 is highly shear-stable, multigrade gasoline engine oil formulated from selected base fluids for use in passenger car and light truck engines requiring API SN/CJ4 or lower performance lubricants and where SAE 10W-40 viscosity grading is acceptable.

#### Features and Benefits

- Anti-wear additive system protects engines under all operating conditions by providing excellent wear control.
- High thermal stability and oxidation resistance
- Excellent protection against in-service oil degradation
- Metallic detergent and ashless dispersant additive system maintains high power and performance.
- Low oil consumption.
- Excellent control of piston and ring deposits under high temperature conditions.

#### Application

Specially formulated for use in naturally aspirated gasoline engines in passenger cars and light commercial vehicles, four-stroke gasoline engines in portable power equipment where the manufacturer recommends conventional passenger car motor oils.

#### Recommendations /Specifications

**International Standards:** : API SN/CJ4, ACEA: A3/B3

Recommended for use: Ford, GM, PSA, BMW, VW, Audi and Mercedes-Benz



Typical Data	Unit	Test Method	Results
SAE Grade			10W40
Density at 15°C	g/cm <sup>3</sup>	ASTM D4052	0.867
Cold Cranking Viscosity(CCS) @-15°C	mPa s	ASTM D5293	7000
Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	95
Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	14.3
Viscosity Index	-	ASTM D2270	155
Flash Point	°C	ASTM D92	224
Pour Point	°C	ASTM D97	-33
Total Base Number	mg KOH/g	ASTM D2896	7.2

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ATL/C-PDS/006/YTC/1\*, 10.12.21, Page 1/1

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# NOVALINE

## NOVALINE MOTOR OIL SAE 20W-50 API SL/CF

Premium Quality Passenger Car Motor Oil

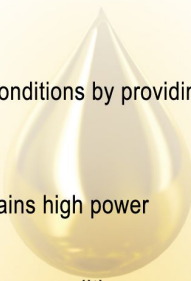
### Properties

NOVALINE MOTOR OIL SAE 20W-50 API SL/CF is premium quality engine oil developed to the highest standards of lubricant quality, reliability and dependable protection.

NOVALINE MOTOR OIL SAE 20W-50 API SL/CF is highly shear-stable, multigrade gasoline engine oil formulated from selected base fluids for use in passenger car and light truck engines requiring API SL/CF or lower performance lubricants and where SAE 20W-50 viscosity grading is acceptable.

### Features and Benefits

- Anti-wear additive system protects engines under all operating conditions by providing excellent wear control.
- High thermal stability and oxidation resistance
- Excellent protection against in-service oil degradation
- Metallic detergent and ashless dispersant additive system maintains high power and performance.
- Low oil consumption.
- Excellent control of piston and ring deposits under high temperature conditions.



### Application

Specially formulated for use in naturally aspirated gasoline engines in passenger cars and light commercial vehicles, four-stroke gasoline engines in portable power equipment where the manufacturer recommends conventional passenger car motor oils.

### Recommendations /Specifications

**International Standards:** API SL/CF, ACEA: A3/B3

Recommended for use: Ford, GM, PSA, BMW, VW, Audi and Mercedes-Benz

Typical Data	Unit	Test Method	Results
SAE Grade			20W50
Density at 15°C	g/cm <sup>3</sup>	ASTM D4052	0.890
Cold Cranking Viscosity(CCS) @-15°C	mPa s	ASTM D5293	8450
Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	153.2
Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	17.7
Viscosity Index	-	ASTM D2270	127
Flash Point	°C	ASTM D92	236
Pour Point	°C	ASTM D97	-24
Total Base Number	mg KOH/g	ASTM D2896	7.2

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ATL/C-PDS/006/YTC/1\*, 10.12.21, Page 1/1

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# NOVALINE

## NOVALINE ATF D III

Fully Synthetic Automatic Transmission Fluid

### Properties

NOVALINE ATF D III is typical fluid, designed for use in modern automatic gearboxes and other transmission units of most passenger cars trucks and buses. It is primarily designed to meet the requirements of DEXRON III and FORD Friction modified specification, but is also suitable for automatic transmission, power-steering and hydraulic units of mobile and off-highway equipment Industrial application and marine hydraulics.

### Features and Benefits

- Exceptional low temperature fluidity.
- Excellent resistance to oxidation and high thermal stability
- Durability of friction characteristics and wear protection.
- Protection against rust and corrosion, and good seal compatibility
- Compatibility with new technologies, such as band clutches and new clutch plate materials

### Recommendations /Specifications

NOVALINE ATF D III meets  
DEXRON III D, Ford MERCON (M2C-138-CJ)/ (M2C-166-H)  
It meets the requirement of Allison C4/CAT TO-2  
MB236.6/236.7, MAN (type 339C)



Typical Data	Unit	Test Method	Results
Density at 15°C	g/cm <sup>3</sup>	ASTM D4052	0.8588
Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	35.9
Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	7.2
Viscosity Index	-	ASTM D2270	170
Flash Point	°C	ASTM D92	216
Pour Point	°C	ASTM D97	-45
ASTM Colour	-	ASTM D6045	L1.0

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ATL/C-PDS/015/YTC/1\*, 10.12.21, Page 1/1

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# NOVALINE

## NOVALINE ENGINE OIL SAE 40 API CF-4

### High Performance Mono-grade Engine Oils

#### Properties

NOVALINE ENGINE OIL SAE 40 API CF-4 is high performance monograde diesel engine oil formulated from advanced technology base oils and a balanced additive system. They are specifically engineered for performance in inter-cooled, turbo-charged engines operating under severe on and off-highway conditions.

NOVALINE ENGINE OIL SAE 40 API CF-4 can be used in a wide range of applications where a monograde lubricant is recommended.

#### Features and Benefits

- Excellent protection against oil thickening
- Excellent protection against sludge build-up
- Reduced high temperature engine deposits
- Reduces wear due to advanced base oils
- Excellent protection against ring sticking
- Provides improved fuel economy
- Reduces wear by controlling soot deposits
- Extension of engine's lifetime
- Delivers unsurpassed levels of protection across a variety of driving conditions and temperatures

#### Application

Formulated for use in naturally aspirated and turbo-charged diesel powered equipment, On-highway light and heavy-duty trucking & Off-highway industries including construction, mining, quarrying & agriculture.

#### Recommendations /Specifications

**International Standards:** API: CF-4

Meets or exceeds: MTU Type 2, Mercedes Benz 228.2, Allison C-4, MAN 270



Typical Data	Unit	Test Method	Results
SAE Grade			40
Density at 15°C	g/cm <sup>3</sup>	ASTM D4052	0.8722
Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	145
Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	15.3
Viscosity Index	-	ASTM D2270	103
Flash Point	°C	ASTM D92	230
Pour Point	°C	ASTM D97	-15
Total Base Number	mg KOH/g	ASTM D2896	8.16

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ATL/C-PDS/010/YTC/1\*, 10.12.21, Page 1/1

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# NOVALINE

## NOVALINE ENGINE OIL SAE 50 API CF-4

### High Performance Mono-grade Engine Oils

#### Properties

NOVALINE ENGINE OIL SAE 50 API CF-4 is high performance monograde diesel engine oil formulated from advanced technology base oils and a balanced additive system.

They are specifically engineered for performance in inter-cooled, turbo-charged engines operating under severe on and off-highway conditions.

NOVALINE ENGINE OIL SAE 50 API CF-4 can be used in a wide range of applications where a monograde lubricant is recommended.

#### Features and Benefits

- Excellent protection against oil thickening
- Excellent protection against sludge build-up
- Reduced high temperature engine deposits
- Reduces wear due to advanced base oils
- Excellent protection against ring sticking
- Provides improved fuel economy
- Reduces wear by controlling soot deposits
- Extension of engine's lifetime
- Delivers unsurpassed levels of protection across a variety of driving conditions and temperatures



#### Application

Formulated for use in naturally aspirated and turbo-charged diesel powered equipment On-highway light and heavy-duty trucking & Off-highway industries including construction, mining, quarrying & agriculture.

#### Recommendations /Specifications

**International Standards:** API: CF-4

Meets or exceeds: MTU Type 2, Mercedes Benz 228.2, Allison C-4, MAN 270

Typical Data	Unit	Test Method	Results
SAE Grade			50
Density at 15°C	g/cm <sup>3</sup>	ASTM D4052	0.892
Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	192.12
Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	18.84
Viscosity Index	-	ASTM D2270	110
Flash Point	°C	ASTM D92	240
Pour Point	°C	ASTM D97	-15
Total Base Number	mg KOH/g	ASTM D2896	8.16

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ATL/C-PDS/010/YTC/1\*, 10.12.21, Page 1/1

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# NOVALINE

## NOVALINE ENGINE OIL SAE 15W-40 API CI-4

### High Performance Universal Engine Oil

#### Properties

NOVALINE ENGINE OIL SAE 15W-40 API CI-4 is a mineral oil based, high-performance universal engine oil of SAE 15W-40 viscosity grade. Mineral oils derived from the most modern refinery techniques, together with innovative additives matched to them, ensure that the demands of today's practice are met.

Its outstanding qualities include its excellent lubrication security at high temperatures and the exceptional wear protection under all operating conditions.

#### Features and Benefits

- Outstanding corrosion protection.
- Excellent oxidation and thermal stability thus control sludge and deposits.
- Reduces friction even under severe low and high temperature.
- Reduces viscosity changes at severe low and high operating temperature.
- Minimizes fuel and oil consumption.
- Reduces friction even under severe low and high temperature.

#### Application

Top-quality oil for universal, year-round application in mixed fleets. Single engine oil for all vehicles excludes the possibility of confusion, and guarantees economic stock maintenance.

NOVALINE ENGINE OIL SAE 15W-40 API CI-4 is high-performance universal engine oil for extended oil-change intervals. The high demands from modern, low-consumption engines for the fulfillment of the tightened EU standards (Euro III) for exhausts are more than satisfied.

#### Recommendations /Specifications

**International Standards:** API: CI-4

Meets or exceeds: Mercedes Benz sheet 228.3 & 229.1, MAN M 3275, ACEA A5/B5, MTU Oil Type 2 / MTU DDC BR 2000 & 4000, Global DHD-1, Volvo VDS-4, Caterpillar ECF-1a & ECF-2, Cummins CES 20071/20072/20076/20077/20078



Typical Data	Unit	Test Method	Results
SAE Grade			15W40
Density at 15°C	g/cm <sup>3</sup>	ASTM D4052	0.883
Cold Cranking Viscosity(CCS) @-20°C	mPa s	ASTM D5293	6000
Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	112.52
Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	15.68
Viscosity Index	-	ASTM D2270	148
Flash Point	°C	ASTM D92	218
Pour Point	°C	ASTM D97	-27
Total Base Number	mg KOH/g	ASTM D2896	10.3

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ATL/C-PDS/011/YTC/1\*, 10.12.21, Page 1/1

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# NOVALINE

## NOVA ENGINE OIL SAE 20W-50 API CI-4

### Multigrade Heavy Duty Diesel Engine Oils

#### Properties

NOVALINE conventional multi-grade Heavy Duty Diesel Engine Oils are formulated to provide excellent performance in heavy duty fleets, marine and industrial applications. The advanced product technology offers a medium extended drain formulation that helps maximize engine durability.

#### Features and Benefits

- High thermal and oxidation stability
- Excellent low temperature properties
- Deposit control and acid neutralization
- Start-up wear protection
- Exceptional high temperature protection for hot running engines under heavy load
- Cleaner engines and longer component life
- Improved soot handling
- TBN reserves
- Advanced detergency/dispersancy
- Component compatibility
- Longer gasket and seal life
- Stay-in-grade shear stability
- Improved viscosity control and used oil pumpability



#### Application

Recommended for use in all naturally aspirated and turbo-charged diesel engines fitted in trucks, tractors, buses, goods carriers (LCVs), 3-wheelers and gensets, on-highway light and heavy-duty trucking, off-highway industries including construction, mining, quarrying, and agriculture & mixed fleet applications.

#### Recommendations /Specifications

API: CI-4, ACEA -A3/B4-10, E7-10, E2, E3, E4, E5, E6, Global-DHD-1, JASO-DH-1  
Meets or exceeds: : MB-228.3 , DEUTZ -DQC-III-10, Renault VI RLD-2, Volvo VDS-3, Mack EO-N, Mack OE-M+, MAN-M-3275-1 (MULTI GRADE)-TUC 0028/15, Detroit Diesel 93K215, MTU Type 2, CUMMINS CES 20078,77,76,75,72,71, CAT ECF-2, ECF-1-a, ZF TE-ML 07C, MIL-PRF-2104H/NATO O-1236, MB 229.1, Allison C4

Typical Data	Unit	Test Method	Results
SAE Grade			20W50
Density at 15°C	g/cm <sup>3</sup>	ASTM D4052	0.889
Cold Cranking Viscosity(CCS) @-15°C	mPa s	ASTM D5293	8050
Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	147.3
Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	17.5
Viscosity Index	-	ASTM D2270	130
Flash Point	°C	ASTM D92	230
Pour Point	°C	ASTM D97	-27
Total Base Number	mg KOH/g	ASTM D2896	10.5

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ATL/C-PDS/012/YTC/1\*, 10.12.21, Page 1/1

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# NOVALINE

## NOVALINE BRAKE FLUID DOT 3

High Performance Glycol Ether Based Brake Fluid

### Properties

NOVALINE BRAKE FLUID DOT 3 is a heavy – duty, high boiling point brake fluid. It is suitable for all conventional drum and disc brake system under arduous conditions. It may be used in hydraulic clutch – release systems. Care should be taken that NOVALINE BRAKE FLUID DOT 3 should not be used in hydraulic systems for which mineral base fluids are specified.

### Features and Benefits

- Low vapor pressure and High Boiling Point
- Fluidity at low temperatures and excellent thermal stability.
- Excellent chemical stability and corrosion resistance.
- Compatible with all system seals.
- Excellent braking response due to high boiling point of fluid.
- High wet boiling point ensures long term retention of fluid performance.
- Better performance for life of fluid.

### Application

Recommended for re-fill or top-up of brake and clutch systems in passenger cars, 4WD's, motorcycles, light and heavy duty commercial vehicles, mining, construction and agricultural equipment that require a non-petroleum based brake & clutch hydraulic fluid.

### Recommendations /Specifications

Exceeds Federal Motor Vehicle Safety Standard n°116 DOT 3 SAE J 1703, NF R 12-640, ISO 4925  
NOVALINE BRAKE FLUID DOT 3 meets the requirements of European Manufacturers

### STORAGE STABILITY

Storage time is up to three years in sealed, metal, bulk containers. Protection should be provided to prevent any moisture contamination. Moisture contamination will result in a 5–10°C boiling point drop for each 0.1% of water absorbed.  
HEALTH AND SAFETY: Avoid contact with skin, varnish & paint. If skin contact occurs wash with water.



TEST PARAMETERS	TEST METHOD	Results
	as Per FMVSS 116 DOT3	
ERBP °C		235
WET ERBP °C		148
Kinematic Viscosity mm Sq.Per second @ 100°C		2.4
PH Value		9.0
Corrosion Test @ 100°C for 120hrs		Passes test
Appearance	Visual	B&C
Color	Visual	PALE YELLOW / BLUE

Note: the information contained herein is subject to change without notification. Typical Properties may vary slightly.

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\* supersedes all previous versions

**Health and Safety** Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.





# NOVALINE

## NOVALINE HYDRAULIC OIL ISO 68

### Very High Performance Anti-Wear Hydraulic Oils

#### Properties

NOVALINE HYDRAULIC OIL is supreme performance anti-wear hydraulic oils engineered for wide temperature range applications.

#### Features and Benefits

- Exceptional Anti-Wear Protection
- Outstanding Oxidation Stability
- Remarkable filterability even in the presence of water
- Excellent Corrosion Protection
- Good Water Separation
- Excellent Air Separation Characteristics
- Excellent hydrolytic stability avoiding filter blocking.
- Good anti-foam and air release properties by using silicon free components.

#### Application

- Hydraulic systems critical to deposit build-up such as sophisticated Numerically Controlled (NC) machines, particularly where close clearance servo-valves are used
- Systems where cold start-up and high operating temperatures are typical
- Where small amounts of water are unavoidable and this water could damage components
- In systems containing gears and bearings
- Systems requiring a high degree of load-carrying capability and anti-wear protection
- Machines employing a wide range of components using various metallurgy
- Rotary screw compressors in natural gas service



#### Recommendations /Specifications

DIN 51524 Part 2, Denison HF-0, HF-1, HF-2, Vickers 1-286-S

Typical Data	Unit	Test Method	Results
ISO Viscosity Grade			68
Density at 15°C	g/cm <sup>3</sup>	ASTM D4052	0.884
Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	68
Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	9.2
Viscosity Index	-	ASTM D2270	98
Flash Point	°C	ASTM D92	238
Pour Point	°C	ASTM D97	-24

Note: the information contained herein is subject to change without notification. Typical Properties may vary slightly.

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# NOVALINE

## NOVALINE SAE 20W-50 API CF-4/SL

### MULTIGRADE HEAVY DUTY DIESEL ENGINE

#### Properties

Provide exclusive combinations of the latest high performance additives ensuring that the oil adapts and protects under the full range of pressures & temperatures found in modern engines - from the high temperature in the pistons, to the extreme loads found in the valve-trains. Extra active additives control & sweep away harmful soot & particles found in high performance engines..

#### PERFORMANCE FEATURES AND BENEFITS

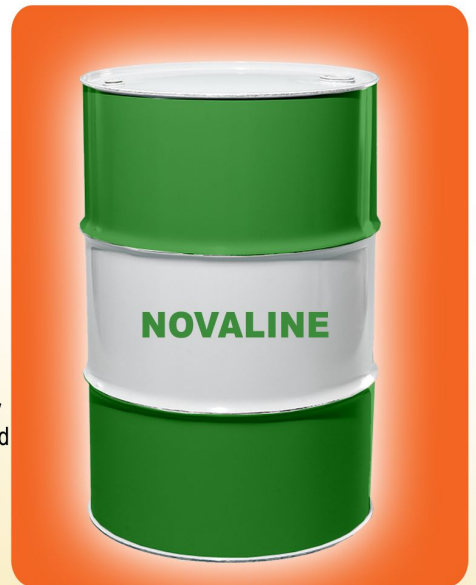
- High thermal and oxidation stability
- Deposit control and acid neutralization
- Start-up wear protection
- Cleaner engines and longer component life
- Improved soot handling
- TBN reserves
- Advanced detergency/dispersancy
- Excellent low temperature properties
- Exceptional high temperature protection for hot running engines under heavy load
- Component compatibility
- Longer gasket and seal life
- Stay-in-grade shear stability
- Improved viscosity control and used oil pumpability

#### Application

Recommended for use in all naturally aspirated and turbo-charged diesel engines fitted in trucks, tractors, buses, goods carriers (LCVs), 3-wheelers and gensets, on-highway light and heavy-duty trucking, off-highway industries including: construction, mining, quarrying, and agriculture & mixed fleet applications.

#### DESCRIPTION

NOVALINE conventional multi-grade Heavy Duty Diesel Engine Oils are formulated to provide excellent performance in heavy duty fleets, marine and industrial applications. The advanced Product technology offers a medium extended drain formulation that helps maximize engine durability.



#### Recommendations /Specifications

**International Standards:** API CF-4, CF-4/SL, CF ACEA -A3/B4, E2,E3,E4,E5,E6, Global-DHD-1, JASO-DH-1

Meets or exceeds : MB-228.3 , DEUTZ -DQC-III-10, Renault VI RLD-2, Volvo VDS-3, Mack EO-N, Mack OE-M+,

MAN-M-3275-1(MULTI GRADE)-TUC 0028/15, Detroit Diesel 93K215, MTU Type 2, MB 229.1, Allison C4,

CUMMINS CES 20078,77,76,75,72,71, CAT ECF-2, ECF-1-a, ZF TE-ML 07C, MIL-PRF-2104H/NATO O-1236

**Meets quality requirements of most diesel engine manufacturers in the USA, Europe, Japan and Korea TYPICAL TECHNICAL**

<b>Viscosity Grade, SAE J300</b>			20W50
Product code			0423537HT
Density at 15°C	g/ml	ASTM D4052	0.889
Cold Cranking Viscosity(CCS)	mPa s	ASTM D5293	8050@-15 °C
Kinematic Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	18.4
Kinematic Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	18.47
Viscosity Index	-	ASTM D2270	112
Flash Point (COC)	°C	ASTM D92	230
Pour Point	°C	ASTM D97	-24
Total Base Number	mg KOH/g	ASTM D2896	10

Note: the information contained herein is subject to change without notification. Typical Properties may vary slightly.

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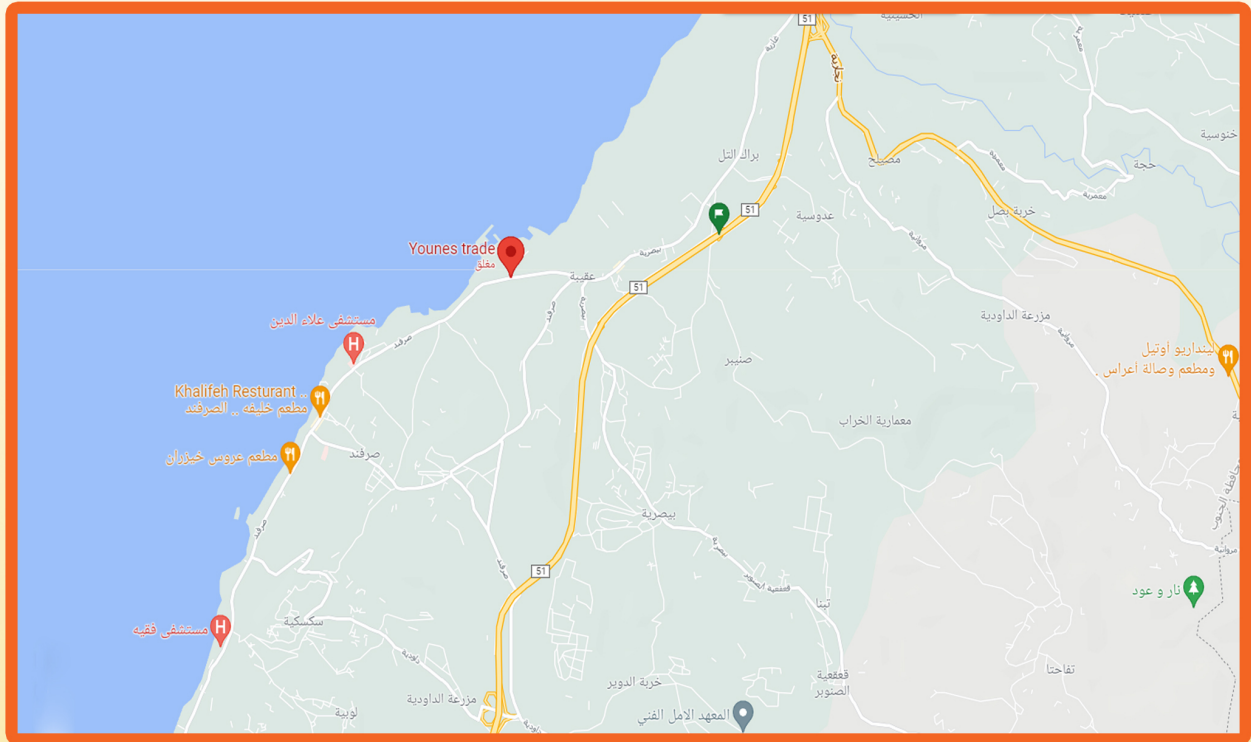
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# YOUNES TRADE COMPANY

## IMPORT & EXPORT



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