WULF SAE 50
API SC/CC

High quality oil, made of natural, paraffinic basic oils and special additives.
It offers a good resistance to oxidation and corrosion.

APPLICATIONS

This oil can be used in lightly loaded naturally aspirated diesel and petrol engines operating under service conditions.

FEATURES

Total engine protection : engine protection and cleanliness.

SPECIFICATION LEVEL

API	SC/CC	WULF	Mono Grade
WULF	Mono Grade		

TYPICAL CHARACTERISTICS

Test	Method	Unit	Average Result
Density at 15°C	ASTM D4052	g/ml	0.900
Kinematic viscosity at 40°C	ASTM D455	mm²/s	220
Kinematic viscosity at 100°C	ASTM D455	mm²/s	18.3
Viscosity index	ASTM D2270		95
B.N. (HCLO4 method)	ASTM D2896	mg KOH/g	3.4
Pour point	ASTM D6892	°C	-15
Flash Point COC	ASTM D92	°C	254

Very high performance anti-wear hydraulic oils.

Applications

Hydraulic circuits

- Industrial hydraulic systems
- Hydraulics of mobile and construction equipment where a water separating oil is required
- Hydraulic systems with vane, gear or piston pumps
- Plastic injection molding machines
- Machine tools
- Enclosed gear systems (dependant on load)
- Industrial circulating systems -

Specifications

International specifications

- AFNOR NF E 48 -603 HM
- DIN 51524 P2 HLP
- CINCINNATI MILACRON P68, P69, P70
- VICKERS M-2950S, -I-286
- DENISON HF0, HF1, HF2 (T6H20C)

Advantages

Long equipment life time

High operating reliability

- High protection against wear insuring maximum equipment life.
- Superior thermal stability avoiding formation of sludge even at high temperature.
- Very good oxidation stability ensuring a long service life of the fluid.
- Remarkable filterability even in the presence of water.
- Excellent hydrolytic stability avoiding filter blocking.
- Excellent protection against rust and corrosion.
- Good anti-foam and air release properties by using **silicon free** components.
- Good demulsibility ensuring rapid water separation
- Reduced maintenance and operating costs.

Provides Wear Protection

- Effective anti-wear additive package reduces wear by protecting surfaces when load causes breakdown of the lubricant film.

An Economical Option

- Hydraulic Oil AW is designed for systems that have high usage rates due to leaks, seal failure or hose breakage where the lubricant is not required to demonstrate extended drain intervals. If the equipment is in a demanding application at elevated temperatures, with extended drain intervals or where full equipment manufacturer approvals are required, then please refer to HD.

TYPICAL CHARACTERISTICS **Hydraulic Group 2**

Test	WULF 46	WULF 68
Flash Point, °C (typical)	220	240
Pour Point, °C (typical)	-21	-21
Rust Preventing Characteristics		
(D665B)	Pass	Pass
Viscosity (typical),		
mm^2/s @ 40°C	44	65
mm^2/s @ 100°C	6.7	8.7
Viscosity Index (min)	95	95

Above characteristics are mean values given as an information.

208L

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APPLICATIONS

Hydraulic circuits

- Designed for use in all kind of hydraulic sytems running under the most difficult conditions, such as in machine tools, mould injection machines, presses and other industrial or mobile equipment.
- Also used in many other applications, where an universal high performance anti wear lubricant is the first choice : low charged gears, sliding and roller bearings, air compressors, servo - motors and control systems equipped with fine filtration systems.

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TYPICAL CHARACTERISTICS

Test	WULF 46	WULF 68
Appearance (visual)	Clear liquid	Clear liquid
Density at 15 °C	880	884
Viscosity at 40°C	46	68
Viscosity at 100°C	6.8	8.7
Viscosity index	98	98
Cleveland flash point	222	232
Pour point	- 25	- 20
Filterability 0.8 µ without water	1.02	1.01
Filterability 0.8 µ with water	1.5	1.5

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WULF CF-4 SG Multi Grade Engine Oils are formulated with refined high quality, high base stocks and multi-functional additives. They provide outstanding performance in lubricating engines fueled with gasoline or diesel oils under severe operating environment, especially for large-scale coaches.

Specifications

API CF-4 SG

SN - Synthetic Base

- AFNOR NF E 48The product meets the following specifications:
- API CF-4 SG
- GB 11121-2006 SG, GB 11122-2006 CF-4

Advantages

Synthetic Base is protection of both diesel & petrol engines.

High operating reliability

- Meeting requirements of mixed fleet
- Excellent anti-oxidation property, effectively prolonging oil drain interval
- Excellent detergency and dispersancy, making engines cleaner, reducing formation of black sludge caused by start-stop service
- Excellent anti-wear and anti-friction property, effectively protecting frictional parts of engines
- Outstanding TBN (Total Base Number) retention, protecting engines from corrosive wear
- Low volatility, reducing consumption of engine oil
- Good compatibility with rubber, effectively protecting sealed material against leakage

Provides Wear Protection

- Suitable for bus/car/truck engines of normal aspiration, direct injection, equipped turbo chargers and multi-valves, fuelled with petrol or diesel oil and working in various severe conditions
- Suitable for large power, heavy duty diesel engines of such machines as mine vehicles, various trucks, trailers and other engineering vehicles, and for lubrication of diesel engines requiring oils of API CF-4 SG.

TYPICAL CHARACTERISTICS CF-4 SG Engine oil

Test	10W-30	15W-40	20W-50
Kinematic viscosity(100ºC),mm2/s	11.86	15.34	19.2
Kinematic viscosity(40ºC),mm2/s	70.1	108.9	158.6
Flash point (COC), ºC	218	228	232
Pour point, ºC	-32	-30	-20

Above characteristics are mean values given as an information.

208L

WULF CF-4 SG Multi Grade Engine Oils are formulated with refined high quality, high base stocks and multi-functional additives. They provide outstanding performance in lubricating engines fueled with gasoline or diesel oils under severe operating environment, especially for large-scale coaches.

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Provides Wear Protection

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- Suitable for large power, heavy duty diesel engines of such machines as mine vehicles, various trucks, trailers and other engineering vehicles, and for lubrication of diesel engines requiring oils of API CF-4 SG.

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Flash point (COC), ºC	218	228	232
Pour point, ºC	-32	-30	-20

Above characteristics are mean values given as an information.

WULF CH-4-SL Multi Grade Engine Oils are formulated with refined high quality, high base stocks and multi-functional additives. They provide outstanding performance in lubricating engines fueled with gasoline or diesel oils under severe operating environment, especially for large-scale coaches.

Specifications

API CH-4-SL

SN - Synthetic Base

- AFNOR NF E 48The product meets the following specifications:
- API CH-4-SL

Advantages

Synthetic Base is protection of both diesel & petrol engines.

High operating reliability

- Excellent detergency and dispersancy, making engines cleaner, reducing formation of
- black sludge caused by start-stop service
- Aspirated by naturally and turbo-charged diesel powered equipment from leading Japanese, European, and American manufacturers
- Low volatility, reducing consumption of engine oil
- Mixed fleet applications

Provides Wear Protection

- Suitable for bus/car/truck engines of normal aspiration, direct injection, equipped turbo chargers and multi-valves, fuelled with petrol or diesel oil and working in various severe conditions
- Suitable for large power, heavy duty diesel & gasoline engines of such machines as mine vehicles, various trucks, trailers and other engineering vehicles, and for lubrication of diesel & gasoline engines requiring oils of API CH-4-SL.

TYPICAL CHARACTERISTICS — CH-4-SL Engine oil

TEST	UNIT	10W-30	15W-40	20W-50
Density at 15 °C	kg/m^3	863	880	887
Kinematic Viscosity at 40 °C	mm^2/s	79.0	106.7	160.0
Kinematic Viscosity at 100 °C	mm^2/s	11.6	13.9	16.8
Viscosity Index	-	138	129	118
Flash Point	°C	>222	>228	>230

Above characteristics are mean values given as an information.

208L

WULF CH-4-SL Multi Grade Engine Oils are formulated with refined high quality, high base stocks and multi-functional additives. They provide outstanding performance in lubricating engines fueled with gasoline or diesel oils under severe operating environment, especially for large-scale coaches.

Specifications

API CH-4-SL

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Advantages

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High operating reliability

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Provides Wear Protection

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The latest revision of the JASO MA2 Specification will insure features motorcycle lubricants formulations.
Protection four stroke engine life. Excellent high and low temperature properties to provide dependable protection across a wide range of driving conditions.
Fuel saving technology.

Specifications

- Super 4T 20W50
- JASO MA2

Advantages

- Its specific formulation provides excellent high temperature protection under severe operating conditions and when you start a cold engine.
- The following benefits can be obtained if you use this product:
- Reduction in smokes coming from the exhaust pipe.
- A higher engine cleaning.
- A reduced piston ring wear.

TYPICAL CHARACTERISTICS	Super 4T
Test	**20W50**
cSt @ 40ºC	185
cSt @ 100ºC	20.5
Sulfated Ash, wt%, ASTM D874	0.8
Pour Point, ºC, ASTM D97	-33
Flash Point, ºC, ASTM D92	230
Density @15.6ºC g/ml, ASTM D4052	0.89

Above characteristics are mean values given as an information.

Transmission Fluid is essentially thin hydraulic oil. In order to effectively lubricate the delicate parts of the system, the viscosity of the oil is kept low. ATF is also used as a hydraulic fluid in some power steering systems, as a lubricant.

EP 140 is a high viscosity, mineral oil based gear oil containing anti-oxidant, anti-wear and extreme pressure additives to protect against problems due to oil oxidation, gear wear and corrosion.

Specifications

- API GL-4 EP-140
- Gear Oil

Advantages

- Excellent oxidation resistance and thermal stability to minimize sludge and varnish formation.
- Good thermal durability and extreme-pressure (EP) properties for long gear life.
- High load-carrying capacity for protection against scuffing and wear.

Provides Wear Protection

- An extreme pressure gear oil typically used in manual gearboxes fitted to many passenger cars, vans and commercial vehicles.
- It is designed to cope with the increasing demands of modern motoring conditions which include high shock load, high torque and high speed service conditions.

TYPICAL CHARACTERISTICS **API GL-4**

Test	Unit Per 140 Gear Oil (API GL-4)
Appearance	Clear
Colour	Golden
Kinematic viscosity cSt @ 100°C	28-30
Flash Point (COC)°C, Min	220°C
Pour Point	-10°C
Viscoscity Index	95

Above characteristics are mean values given as an information.

EP 140 is a high viscosity, mineral oil based gear oil containing anti-oxidant, anti-wear and extreme pressure additives to protect against problems due to oil oxidation, gear wear and corrosion.

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WULF has been designed to exceed the requirements of the Original Equipment Manufacturers' (OEM's) service fill specifications.
WULF has very good thermo-oxidative stability, effectively preventing the formation of sludge and deposits, resulting in a prolonged engine life.

Specifications

- CF/SF 20W50
- Synthetic Base

Advantages

- Provides high thermal stability and oil oxidation resistance.
- High control over wear, rust and corrosion to ensure long life of engine parts.
- Provide a high standard of piston cleanliness.
- Improved fuel economy and filterability.
- Longer maintenance intervals and oil change period.

Provides Wear Protection

- Effective anti-wear properties protect the engine and extend engine life.
- Protects against Rust and Corrosion extending engine life.

TYPICAL CHARACTERISTICS **CF / SF 20W50**

Test	Method	Unit	Typical Values
Density @ 20°C	ASTM D4052	g/ml	0.8850
Kinematic viscosity @ 100°C	ASTM D455	cSt	18.5
Viscosity index	ASTM D2270	NA	125
Corrected Flash Point	ASTM D92	°C	238
Pour Point	ASTM D97	°C	-24

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Pour Point	ASTM D97	°C	-24

Above characteristics are mean values given as an information.

Specifications

- SAE50-SC/CD
- Mono Grade

Advantages

- It has a good level of detergency and disperancy.
- Protection against wear and rust prevention.
- Excellent high-temperature stability.
- Excellent internal engine cleanliness.
- Excellent oxidation protection at high temperatures.

Provides Wear Protection

- WULF Mono range oils are standard mono-grade diesel engine oils suitable for use in older engines of light & Heavy commercial trucks and vans.
- The product is manufactured using high quality base stocks and proven additive packages to provide the best anti-wear protection and all-round superior performance.

TYPICAL CHARACTERISTICS **SAE50-SC/CD**

Test	Unit	Average Result
Kinematic Viscosity	100°C mm²/s	19.1
Pour Point	°C	-9
Flash Point	°C	230

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SAE50-SC/CD

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TYPICAL CHARACTERISTICS

SAE50-SC/CD

Test	Unit	Average Result
Kinematic Viscosity	100°C mm²/s	19.1
Pour Point	°C	-9
Flash Point	°C	230

Above characteristics are mean values given as an information.

SG/CD General Engine Oil. WULF SG/CD General Engine Oils are formulated with high quality mineral base stocks and multiple additives. These products are suitable for lubrication of gasoline and diesel oil engines using SG, CD engine oils or below.

Specifications

- **API SG/CD 20W50**
- **Motor Oil**

Advantages

- **Prolongs the life of valves and spark plugs.**
- **Cleans pistons and engines.**
- **Reduces fuel and oil consumption.**
- **Minimizes varnish and sludge.**
- **Provides excellent protection against engine wear.**

Provides Wear Protection

- SG/CD series is formulated with high-quality base stocks and a balanced additive system to provide a high level of engine protection and performance.
- It works harder than other conventional motor oils by continuously preventing dirt and sludge build-up and reduces engine noise.
- This product meets the requirements of most car manufacturers and is suitable for standard services.

TYPICAL CHARACTERISTICS SG/CD 20W50

Test	Value
Viscosity mm2/c at 40°C	146.1
Viscosity mm2/c at 100°C	17.46
Viscosity index	131.08
Flash poin, °C	240
Pour point, °C	-24
Density at 20°C, kg/m^3	886

Above characteristics are mean values given as an information.