NOOR ALKADDAH

NLD NORDLUB

PRODUCT CATALOGUE

LUBRICANTS THAT KEEP YOUR ENGINE RUNNING SMOOTHLY

NOOR ALKADDAH

FIELD

NOOR ALKADDAH is an International leading company in Manufacturing all types of Lubricants, Greases, Brake fluids, Antifreeze liquids and Car care products. Trading all fuel types and grades for example, LPG, Naphtha, Gasoline, Diesel, Bitumen, Marine fuels, etc. Providing all Spare parts, Vehicle accessories. Import/Export and marketing of oil.

MARKET

It explains the nature of the company's operations, the expected volume of business, and the countries from which it imports and exports to, with an overview of the largest customers and suppliers, including only their names and the place where they conduct business.

GREEN

Working closely with city stakeholders such as government, private sector and local communities, we aim to help cities move people and goods with lower emissions, switch to cleaner energy options and embed sustainable features in their built environments, Our target is to become a net-zero emissions energy business by 2050.

HISTORY

ALKADDAH Group, founded in 1978 is a global group of energy and petrochemical companies that aims to meet the world's growing need for more and cleaner energy solutions in ways that are economically, environmentally and socially responsible.

VISION

We distribute around the globe with our Brand NORDLUB reaching consumers in all over the World, Our Company is committed to provide the best Support and Service Quality to its customers with the aim of Embarking on a Year-on-year Growth rate of 22% over the next 3 years. We are known for our High Quality assurance and level of Innovations.

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DIESEL ENGINE OIL

Diesel oils are high perfomance crankcase oil for diesel engines. They are manufactured using selected premium paraffinic base oil and detergent, dispersant, wear control, antioxidant, corrosion inhibitor, and foam suppressant additives. Reduce the formation of piston deposits and varnish resulting from high temperature operation and sludge typical of low engine temprature service

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DIESEL ENGINE OIL SAE 50
(API CK4/CJ4/CI4/CH4/CD)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	SAE 50
Kinematic viscosity at 40°C	mm^2/s	ASTM D445	210
Kinematic viscosity at 100°C	mm^2/s	ASTM D445	19
Density at 15°C	kg/L	ASTM D1298	0.901
Viscosity index	-	ASTM D2270	101
Pour point	°C	ASTM D97	-21
OC Flash point	°C	ASTM D97	260

DIESEL ENGINE OIL SAE 60
(API CF/CD)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	SAE 60
Kinematic viscosity at 40°C	mm^2/s	ASTM D445	290
Kinematic viscosity at 100°C	mm^2/s	ASTM D445	23.3
Density at 15°C	kg/L	ASTM D1298	0.906
Viscosity index	-	ASTM D2270	100
Pour point	°C	ASTM D97	-21
OC Flash point	°C	ASTM D97	260

DIESEL ENGINE OIL SAE 70
(API CK-4/CJ4/CI4/CH4)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	SAE 70
Kinematic viscosity at 40°C	mm^2/s	ASTM D445	390
Kinematic viscosity at 100°C	mm^2/s	ASTM D445	29.5
Density at 15°C	kg/L	ASTM D1298	0.901
Viscosity index	-	ASTM D2270	105
Pour point	°C	ASTM D97	-21
OC Flash point	°C	ASTM D97	260

DIESEL ENGINE OIL SAE 20W50
(API CH-4,CI-4/SL,SJ-ACEA:E7-12)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	20W50
Kinematic viscosity at 40°C	mm^2/s	ASTM D445	156.8
Kinematic viscosity at 100°C	mm^2/s	ASTM D445	17.58
Density at 15°C	kg/L	ASTM D1298	0.8833
Viscosity index	-	ASTM D2270	123
Pour point	°C	ASTM D97	-30
OC Flash point	°C	ASTM D97	248

DIESEL ENGINE OIL SAE 15W40
(API CK-4/SN,CJ-4/CI-4 - ACEA:E6,E7,E9)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	15W40
Kinematic viscosity at 40°C	mm^2/s	ASTM D445	100.3
Kinematic viscosity at 100°C	mm^2/s	ASTM D445	13.5
Density at 15°C	kg/L	ASTM D1298	0.888
Viscosity index	-	ASTM D2270	134
Pour point	°C	ASTM D97	-30
OC Flash point	°C	ASTM D97	248

20W50

In order to protect the engine components when is car both hot and cold, engine oil has to meet viscosity specifications across a range of temperature. Viscosity is the oil's 'pourability' or 'thickness. This viscosity is measured and given an SAE 'grade! Ordinary single-grade oil becomes so viscous (thick) at lower temperatures that it would take too long to reach movings parts in a cold engine and would not process easily through small gaps and oil ways. This is why all modern engine oils use Vis - Viscosity Enhancers- to improve thier viscosity at lower temperatures. These 'multigrade' oils get a regular viscosity test at 100 degrees Centigrade, and a second low-temperature 'winter' (W) test. Multigrade oils quote the 'W' (winter)

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EXPLANATION OF LABELLING

- **PETROL A:**
  A1 Fuel economy petrol
  A2 Standard performance level
  A3 High performance and/or extended drain
  A5 Fuel economy petrol with extended drain capability

- **DIESEL B:**
  B1 Fuel economy petrol
  B2 Standard performance level
  B3 High performance and/or extended drain
  B4 Fuel economy petrol with extended drain capability
  B5 Fuel economy petrol with extended drain capability

- **PETROL & DIESEL C:**
  Diesel vehicles with diesel particular filter (DPF)
  C1 Low SAPS (%0.5 ash) fuel efficient
  C2 Mid SAPS (%0.8 ash) fuel efficient, performance
  C3 Mid SAPS (%0.8 ash)

- **DIESEL E:**
  Heavy-duty diesel
  EI Non-turbo charged light duty diesel
  E2 Standard performance level
  E3 High performance and extended drain
  E5 High performance and extended drain inclu- ding some API specs
  E6 Euro 4 engines - low SAPS (sulphated ash, ph- osphorous, sulphur) for vehicles with DPF
  E7 Euro 4 engines - exhaust after treatment / ex- haust gas recirculation

API CI-4/SL

API stands for American Petroleum institute, the body in charge of oil performance and quality standards in the US. Like the ACEA standards it includes specifications for both spark ('S') petrol engines and compression ('C') diesel engines. SN is the latest specification for petrol engines, introduced in 2010. Diesel classifications are more complex. The CJ4- specification, introduced in 2006, is designed for modern emission control and particulate filter systems

Mineral

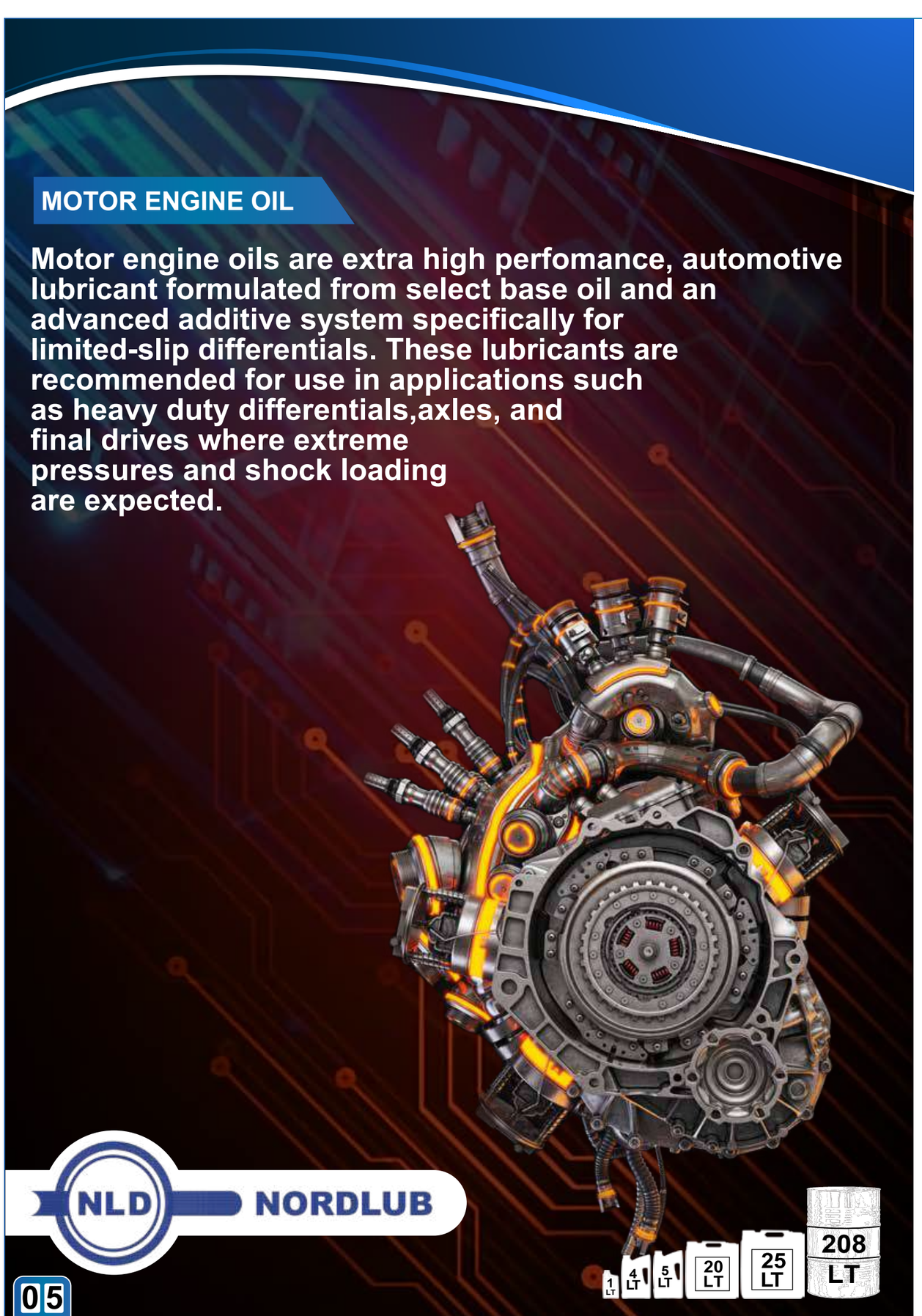
Mineral oil sounds like it should be synthetic too (minerals aren't organic, after all), but the names comes from the way it's extracted from the earth like other mineral deposits. It's 'cruder' than synthetic oil, but also a lot cheaper to manufacturer, and it can still provide perfectly adequate protection for less demanding engines

Synthetic

Synthetic motor oil is the pinnacle of engine lubricantion for high performance vehicles. Despite the name, though, synthetic oil is still derived from the thick black stuff ejected by oil wells. the difference is that its molecular structure and properties are modified, refined and 'synthesised' using complex laboratory

MOTOR ENGINE OIL

Motor engine oils are extra high perfomance, automotive lubricant formulated from select base oil and an advanced additive system specifically for limited-slip differentials. These lubricants are recommended for use in applications such as heavy duty differentials,axles, and final drives where extreme pressures and shock loading are expected.



MOTOR ENGINE OIL SAE 5W20
(API SP,SN/CF-ACEA A3/B4)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	5W20
Kinematic viscosity at 40°C	mm^2/s	ASTM D445	50
Kinematic viscosity at 100°C	mm^2/s	ASTM D445	8.7
Density at 15°C	kg/L	ASTM D1298	0.855
Viscosity index	-	ASTM D2270	153
Pour point	°C	ASTM D97	-40
OC Flash point	°C	ASTM D97	230

MOTOR ENGINE OIL SAE 5W30
(API SP+/CF-ACEA A1/B1/A5/B5)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	5W30
Kinematic viscosity at 40°C	mm^2/s	ASTM D445	70.4
Kinematic viscosity at 100°C	mm^2/s	ASTM D445	12.1
Density at 15°C	kg/L	ASTM D1298	0.852
Viscosity index	-	ASTM D2270	171
Pour point	°C	ASTM D97	-39
OC Flash point	°C	ASTM D97	228

MOTOR ENGINE OIL SAE 5W40
(API SP/SN/ EC- ACEA A3/B4)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	5W40
Kinematic viscosity at 40°C	mm^2/s	ASTM D445	90
Kinematic viscosity at 100°C	mm^2/s	ASTM D445	14.5
Density at 15°C	kg/L	ASTM D1298	0.85
Viscosity index	-	ASTM D2270	168
Pour point	°C	ASTM D97	-42
OC Flash point	°C	ASTM D97	230

MOTOR ENGINE OIL SAE 0W20
(API SP,SN,SN+-ACEA A1,B1)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	0W20
Kinematic viscosity at 40°C	mm²/s	ASTM D445	40
Kinematic viscosity at 100°C	mm²/s	ASTM D445	7.5
Density at 15°C	kg/L	ASTM D1298	0.848
Viscosity index	-	ASTM D2270	157
Pour point	°C	ASTM D97	-42
OC Flash point	°C	ASTM D97	230

MOTOR ENGINE OIL SAE 10W30
(API SN,SN+,SM-ACEA A1/B1)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	10W30
Kinematic viscosity at 40°C	mm²/s	ASTM D445	69
Kinematic viscosity at 100°C	mm²/s	ASTM D445	10.5
Density at 15°C	kg/L	ASTM D1298	0.868
Viscosity index	-	ASTM D2270	139
Pour point	°C	ASTM D97	-39
OC Flash point	°C	ASTM D97	236

MOTOR ENGINE OIL SAE 0W30
API SP,SN,SN+-ACEA C2/C3)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	0W30
Kinematic viscosity at 40°C	mm²/s	ASTM D445	67.8
Kinematic viscosity at 100°C	mm²/s	ASTM D445	12.2
Density at 15°C	kg/L	ASTM D1298	0.85
Viscosity index	-	ASTM D2270	179.8
Pour point	°C	ASTM D97	-45
OC Flash point	°C	ASTM D97	226

MOTOR ENGINE OIL SAE 10W40
(API SP+/CF-ACEA A1/B1/A5/B5)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	10W40
Kinematic viscosity at 40°C	mm²/s	ASTM D445	96.8
Kinematic viscosity at 100°C	mm²/s	ASTM D445	14.81
Density at 15°C	kg/L	ASTM D1298	0.8736
Viscosity index	-	ASTM D2270	160
Pour point	°C	ASTM D97	-24
OC Flash point	°C	ASTM D97	232

MOTOR ENGINE OIL SAE 0W40
(API SN,SN+-ACEA A3/B4)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	0W40
Kinematic viscosity at 40°C	mm²/s	ASTM D445	76.4
Kinematic viscosity at 100°C	mm²/s	ASTM D445	13.4
Density at 15°C	kg/L	ASTM D1298	0.85
Viscosity index	-	ASTM D2270	179
Pour point	°C	ASTM D97	-45
OC Flash point	°C	ASTM D97	>230

MOTOR ENGINE OIL SAE 15W40
(API SL/CF-ACEA A1/B1)

TYPICAL PROPERTIES:

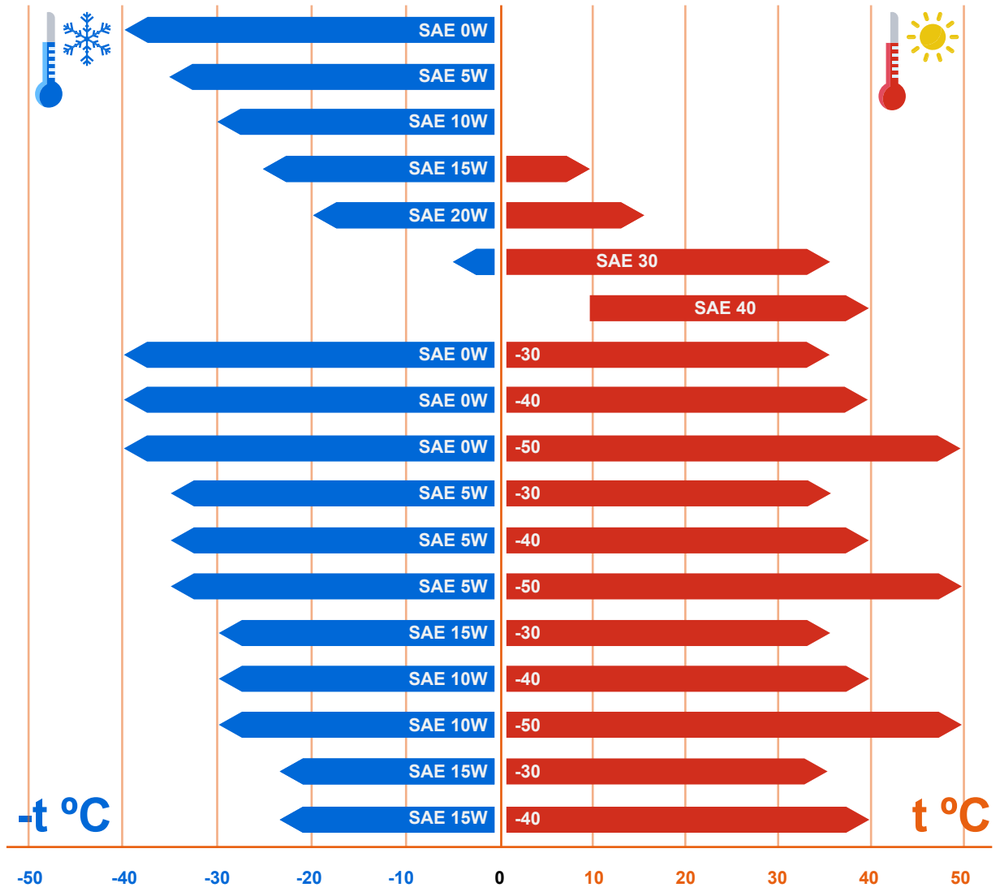
TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	15W40
Kinematic viscosity at 40°C	mm²/s	ASTM D445	122
Kinematic viscosity at 100°C	mm²/s	ASTM D445	15.8
Density at 15°C	kg/L	ASTM D1298	0.888
Viscosity index	-	ASTM D2270	137
Pour point	°C	ASTM D97	-30
OC Flash point	°C	ASTM D97	236

MOTOR ENGINE OIL SAE 20W50
(API SL/CF-ACEA A1/B4)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	20W50
Kinematic viscosity at 40°C	mm²/s	ASTM D445	161
Kinematic viscosity at 100°C	mm²/s	ASTM D445	18.6
Density at 15°C	kg/L	ASTM D1298	0.883
Viscosity index	-	ASTM D2270	130
Pour point	°C	ASTM D97	-30
OC Flash point	°C	ASTM D97	235

SAE TEMPERATURE INFO



GEAR OIL

Gear oils are automotive rear-axle lubricants which incorporates a special friction-modifier. Additive system in high-quality solvent-refined base-oil, to obtain optimum slip function. High pressure agents and other additives offer good wear protection under harsh operating conditions.

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1 LT 4 LT 5 LT 20 LT 25 LT 208 LT

GEAR OIL SAE 75W80
(API GL-4,GL-5,GL-1)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	75W80
Viscosity at 40°C	mm²/s	ASTM D445	55.5
Viscosity at 100°C	mm²/s	ASTM D445	9.5
Density at 15°C	kg/L	ASTM D1298	0.861
Viscosity index	-	ASTM D2270	155
Pour point	°C	ASTM D97	-42
OC Flash point	°C	ASTM D97	232

GEAR OIL SAE 85W140
(API GL-4,GL-5)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	85W140
Viscosity at 40°C	mm²/s	ASTM D445	368
Viscosity at 100°C	mm²/s	ASTM D445	27.8
Density at 15°C	kg/L	ASTM D1298	0.895
Viscosity index	-	ASTM D2270	102
Pour point	°C	ASTM D97	-24
OC Flash point	°C	ASTM D97	220

GEAR OIL SAE 75W140
(API GL-5,GL-5 LS)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	75W140
Viscosity at 40°C	mm²/s	ASTM D445	170
Viscosity at 100°C	mm²/s	ASTM D445	24.4
Density at 15°C	kg/L	ASTM D1298	0.872
Viscosity index	-	ASTM D2270	175
Pour point	°C	ASTM D97	-48
OC Flash point	°C	ASTM D97	210

GEAR OIL EP 150
EP ISO 150

TYPICAL PROPERTIES:

PHYSICAL CHARACTERISTICS	TEST METHOD	TYPICAL VALUE
ISO Grade	Visual	EP 150
Appearance		Bright & Clear
Density @ 15 °C, kg/L	ASTM D-1298	0.9
Kinematic Viscosity, cSt		
At 40°C	ASTM D-445	154
At 100°C	ASTM D-445	15
Viscosity Index	ASTM D-2270	95
Flash Point, COC, °C	ASTM D-92	252
Pour Point, °C	ASTM D-97	-21
TBN mg KOH/g.	ASTM D-974	0.24

GEAR OIL SAE 80W90
(API GL-4,GL-5)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Viscosity grade	-	SAE J300	80W90
Viscosity at 40°C	mm²/s	ASTM D445	143
Viscosity at 100°C	mm²/s	ASTM D445	15
Density at 15°C	kg/L	ASTM D1298	0.895
Viscosity index	-	ASTM D2270	105
Pour point	°C	ASTM D97	-33
OC Flash point	°C	ASTM D97	220

GEAR OIL EP 220
EP ISO 220

TYPICAL PROPERTIES:

PHYSICAL CHARACTERISTICS	TEST METHOD	TYPICAL VALUE
ISO Grade	Visual	EP 220
Appearance		Bright & Clear
Density @ 15 °C, kg/L	ASTM D-1298	0.904
Kinematic Viscosity, cSt		
At 40°C	ASTM D-445	220
At 100°C	ASTM D-445	18.7
Viscosity Index	ASTM D-2270	95
Flash Point, COC, °C	ASTM D-92	256
Pour Point, °C	ASTM D-97	-21
TBN mg KOH/g.	ASTM D-974	0.24

GEAR OIL EP 320

EP ISO 320

TYPICAL PROPERTIES:

PHYSICAL CHARACTERISTICS	TEST METHOD	TYPICAL VALUE
ISO Grade	Visual	EP 320
Appearance		Bright & Clear
Density @ 15 °C, kg/L	ASTM D-1298	0.907
Kinematic Viscosity, cSt		
At 40°C	ASTM D-445	320
At 100°C	ASTM D-445	24
Viscosity Index	ASTM D-2270	95
Flash Point, COC, °C	ASTM D-92	270
Pour Point, °C	ASTM D-97	-14
TBN mg KOH/g.	ASTM D-974	0.24

GEAR OIL EP 460

EP ISO 460

TYPICAL PROPERTIES:

PHYSICAL CHARACTERISTICS	TEST METHOD	TYPICAL VALUE
ISO Grade	Visual	EP 460
Appearance		Bright & Clear
Density @ 15 °C, kg/L	ASTM D-1298	0.91
Kinematic Viscosity, cSt		
At 40°C	ASTM D-445	460
At 100°C	ASTM D-445	30.4
Viscosity Index	ASTM D-2270	95
Flash Point, COC, °C	ASTM D-92	280
Pour Point, °C	ASTM D-97	-9
TBN mg KOH/g.	ASTM D-974	0.24

AUTOMATIC TRANSMISSION FLUID

Automatic Transmission Fluids are a high perfomance automatic transmissions, requiring DEXRON quality fluids respectively. They are specially selected perfomance additives and base oils.
This oil provides improved thermo-oxidiative stability, friction retention properties, foam control and seal compatibility.

AUTOMATIC TRANSMISSION FLUID
ATF DEXRON VI

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Color	-	-	Red
Kinematic viscosity at 40°C	mm²/s	ASTM D445	29
Kinematic viscosity at 100°C	mm²/s	ASTM D445	5.83
Density at 15°C	kg/L	ASTM D1298	0.86
Viscosity index	-	ASTM D2270	145
Pour point	°C	ASTM D97	-45
OC Flash point	°C	ASTM D97	220

AUTOMATIC TRANSMISSION FLUID
ATF DEXRON II

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Color	-	-	Red
Kinematic viscosity at 40°C	mm²/s	ASTM D445	37
Kinematic viscosity at 100°C	mm²/s	ASTM D445	7
Density at 15°C	kg/L	ASTM D1298	0.867
Viscosity index	-	ASTM D2270	153
Pour point	°C	ASTM D97	-40
OC Flash point	°C	ASTM D97	216

AUTOMATIC TRANSMISSION FLUID
ATF TYPE A

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Color	-	-	Red
Kinematic viscosity at 40°C	mm²/s	ASTM D445	35.2
Kinematic viscosity at 100°C	mm²/s	ASTM D445	7.5
Density at 15°C	kg/L	ASTM D1298	0.863
Viscosity index	-	ASTM D2270	160
Pour point	°C	ASTM D97	-42
OC Flash point	°C	ASTM D97	210

AUTOMATIC TRANSMISSION FLUID
ATF DEXRON III

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Color	-	-	Red
Kinematic viscosity at 40°C	mm²/s	ASTM D445	34
Kinematic viscosity at 100°C	mm²/s	ASTM D445	7
Density at 15°C	kg/L	ASTM D1298	0.842
Viscosity index	-	ASTM D2270	173
Pour point	°C	ASTM D97	-42
OC Flash point	°C	ASTM D97	Min177

HYDRAULIC OIL

Hydraulic Oils are designed to give maximum protection to hydraulic pumps in high performance industrial applications as well as in environmentally sensitive areas.
It is formulated with base stocks and ashless ("zinc-free") additive system that provides superior oxidation stability, water separately, foam suppression, and protection against wear, rust and corrosion.

HYDRAULIC OIL
ISO 46

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
ISO viscosity grade	-	-	46
Kinematic viscosity at 40°C	mm²/s	ASTM D445	46
Kinematic viscosity at 100°C	mm²/s	ASTM D445	6.8
Density at 15°C	kg/L	ASTM D1298	0.88
Viscosity index	-	ASTM D2270	101.6
Pour point	°C	ASTM D97	-35
OC Flash point	°C	ASTM D97	232

HYDRAULIC OIL
ISO 32

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
ISO viscosity grade	-	-	32
Kinematic viscosity at 40°C	mm²/s	ASTM D445	32.3
Kinematic viscosity at 100°C	mm²/s	ASTM D445	5.4
Density at 15°C	kg/L	ASTM D1298	0.88
Viscosity index	-	ASTM D2270	>95
Pour point	°C	ASTM D97	-42
OC Flash point	°C	ASTM D97	214

HYDRAULIC OIL
ISO 68

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
ISO viscosity grade	-	-	68
Kinematic viscosity at 40°C	mm²/s	ASTM D445	68
Kinematic viscosity at 100°C	mm²/s	ASTM D445	8.7
Density at 15°C	kg/L	ASTM D1298	0.884
Viscosity index	-	ASTM D2270	99.2
Pour point	°C	ASTM D97	-36
OC Flash point	°C	ASTM D97	242

HYDRAULIC OIL
ISO 38

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
ISO viscosity grade	-	-	37
Kinematic viscosity at 40°C	mm²/s	ASTM D445	37
Kinematic viscosity at 100°C	mm²/s	ASTM D445	6.1
Density at 15°C	kg/L	ASTM D1298	0.864
Viscosity index	-	ASTM D2270	112
Pour point	°C	ASTM D97	-37
OC Flash point	°C	ASTM D97	214

2 STROKE OIL

2-Stroke Oil for motorcycles is formulated with a modern low ash additive system which offers protection against scuffing of piston rings and liner wear by minimizing piston ring deposits. It serves all modern and older model 2 stroke engines, as well as three wheeler light passenger vehicles powered by two stroke engine and chainsaws and in portable equipment powered by two stroke engine.

2 STROKE
SAE 30 API TC JASO FC

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Kinematic viscosity at 40°C	mm²/s	ASTM D445	89.9
Kinematic viscosity at 100°C	mm²/s	ASTM D445	13.8
Density at 15°C	kg/L	ASTM D1298	0.874
Viscosity index	-	ASTM D2270	155
Pour point	°C	ASTM D97	-35
OC Flash point	°C	ASTM D97	226

2 STROKE
API TC-W3 NMMA

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Kinematic viscosity at 40°C	mm²/s	ASTM D445	53
Kinematic viscosity at 100°C	mm²/s	ASTM D445	8.3
Density at 15°C	kg/L	ASTM D1298	0.882
Viscosity index	-	ASTM D2270	160
Pour point	°C	ASTM D97	-35
OC Flash point	°C	ASTM D97	229

4 STROKE OIL

4T advanced four-stroke motorcycle engine oil helps provide an outstanding level of performance in today's high-performance motorcycles. It helps keep four-stroke engines running clean, providing protection even in extreme operating conditions.

4 STROKE
SAE 10W30 (API SL-SJ-SH-SG-JASO MB)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Kinematic viscosity at 40°C	mm²/s	ASTM D445	69
Kinematic viscosity at 100°C	mm²/s	ASTM D445	10.5
Density at 15°C	kg/L	ASTM D1298	0.882
Viscosity index	-	ASTM D2270	140
Pour point	°C	ASTM D97	-31
OC Flash point	°C	ASTM D97	228

4 STROKE
SAE 5W40 (API SN-JASO MA2)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Kinematic viscosity at 40°C	mm²/s	ASTM D445	79.6
Kinematic viscosity at 100°C	mm²/s	ASTM D445	13.6
Density at 15°C	kg/L	ASTM D1298	0.856
Viscosity index	-	ASTM D2270	175
Pour point	°C	ASTM D97	-36
OC Flash point	°C	ASTM D97	231

4 STROKE

SAE 10W40 (API SN-JASO MA2)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Kinematic viscosity at 40°C	mm²/s	ASTM D445	90
Kinematic viscosity at 100°C	mm²/s	ASTM D445	13.8
Density at 15°C	kg/L	ASTM D1298	0.882
Viscosity index	-	ASTM D2270	155
Pour point	°C	ASTM D97	-31
OC Flash point	°C	ASTM D97	228

BRAKE FLUID

Brake fluid is a type of hydraulic fluid used in hydraulic brake and clutch applications in automobiles, motorcycles, light trucks and some bicycles. It is used to transfer force into pressure. It's recommended for complete fluid replacement and "top-up" in most cars and light trucks

4 STROKE

SAE 20W50 (API SL-JASO MA2)

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Kinematic viscosity at 40°C	mm²/s	ASTM D445	160
Kinematic viscosity at 100°C	mm²/s	ASTM D445	18.5
Density at 15°C	kg/L	ASTM D1298	0.881
Viscosity index	-	ASTM D2270	126
Pour point	°C	ASTM D97	-31
OC Flash point	°C	ASTM D97	230

BRAKE FLUID

DOT 3

TYPICAL PROPERTIES:

DESCRIPTION	TEST METHOD	DOT 3
Appearance	Visible	Transparent
Equilibrium reflux boiling point (ERBP) °C,	FMVSS 116	205 Min
Wet equilibrium reflux boiling point (WERBP)	FMVSS 116	140 Min
Kinematic Viscosity@ 100°C cst	ASTM D-445	>1.5
pH	FMVSS 116	7.5-11.0
Specific Gravity 60 °F kg/L	ASTM D-1298	1.07-1.15
Flash Point °C	ASTM D-92	130 Min

BRAKE FLUID

DOT 4

TYPICAL PROPERTIES:

DESCRIPTION	TEST METHOD	DOT 4
Appearance	Visible	Transparent
Equilibrium reflux boiling point (ERBP) °C,	FMVSS 116	235 Max
Wet equilibrium reflux boiling point (WERBP)	FMVSS 116	150 Min
Kinematic Viscosity@ 100°C cst	ASTM D-445	>1.5
pH	FMVSS 116	7.5-11.0
Specific Gravity 60 °F kg/L	ASTM D-1298	1.07-1.15
Flash Point °C	ASTM D-92	120 Min

ENGINE & FUEL ADDITIVES

The Nordlub range of engine and fuel additives has been specifically designed to increase performance, improve reliability and restore normal vehicle operation. Formulated with the latest world class additive technology, The Nordlub range of engine and fuel additives delivers superior performance for all petrol and diesel passenger, light commercial and heavyduty diesel applications.

OCTANE BOOSTER

TYPICAL PROPERTIES:

TEST	RESULT
Colour	yellow, transparent, clear
viscosity at 40°C	7mm²/s
Density @ 15°C kg/L	0.94
Flash point °C	60
Odour	characteristic
Base	Additives + Carrier liquid

OIL TREATMENT

TYPICAL PROPERTIES:

PARAMETERS	TEST METHOD	UNIT	OIL TREATMENT
Appearance	Visual		Viscous, Amber Liquid , Petroleum Odor
Kinematic Viscosity @ 100°C	ASTM D-7042	cst	400.0
SP. Gravity @15°C/ 60°F	ASTM D-4052	kg/L	0.88
Flash Point (min)	ASTM D-92	°C	>200

GASOLINE TREATMENT

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Color	-	-	Red
Kinematic viscosity at 40°C	mm²/s	ASTM D445	35.2
Kinematic viscosity at 100°C	mm²/s	ASTM D445	7.5
Density at 15°C	kg/L	ASTM D1298	0.863
Viscosity index	-	ASTM D2270	160
Pour point	°C	ASTM D97	-42
OC Flash point	°C	ASTM D97	210

DIESEL INJECTOR CLEANER

TYPICAL PROPERTIES:

TEST	RESULT
Colour	Pale Brown
Density @ 15°C kg/L	0.94
Boiling point °C	160_220
pH	Not soluble in water
Flash point °C	38
Odour	Mild

DIESEL FUEL TREATMENT

TYPICAL PROPERTIES:

TEST	UNIT	TEST METHOD	RESULT
Color	-	-	Red
Kinematic viscosity at 40°C	mm²/s	ASTM D445	29
Kinematic viscosity at 100°C	mm²/s	ASTM D445	5.83
Density at 15°C	kg/L	ASTM D1298	0.86
Viscosity index	-	ASTM D2270	145
Pour point	°C	ASTM D97	-45
OC Flash point	°C	ASTM D97	220

CAR CARE PRODUCTS

Car care products are usually surface solvents and chemicals (acids or bases) used for removing stains, cleaning marks, restoring gloss and shine of car surfaces. Car care products are used to prevent or repair damages like swirl marks, scratch, paint fade to ensure. Waxes, polishes, paint protection products, tire cleaners, rim protectors, and glass cleaners are various automotive appearance chemicals available in the market.

COOLING SYSTEM STOP LEAK

Benefits:

» Seals radiator and inlet manifold leaks and cracks, welch plugs and leaking gaskets and pipe leaks fast
» Containsliquid glass resin for the ultimate permanent water tight seal
» Stops leaks from small pinholes (up to 0.8mm diameter) and small cracks (up to 0.8mm width) in any cooling system
» Saves costly mechanical repairs
» Maintains coolant system pressure and temperature to prevent overheating
» Safe to use with all types of Glycol Anti-freeze / Anti-boil coolants and water based corrosion inhibitors

EXTREME COOLING SYSTEM FLUSH & DEGREASER

Benefits:

» Removes oil, fuel & grease contamination
» Reduces overheating
» Reduces mineral scale
» Removes silicate gel contamination
» Neutralises harmful acids

ANTIFREEZE COOLANT
50%

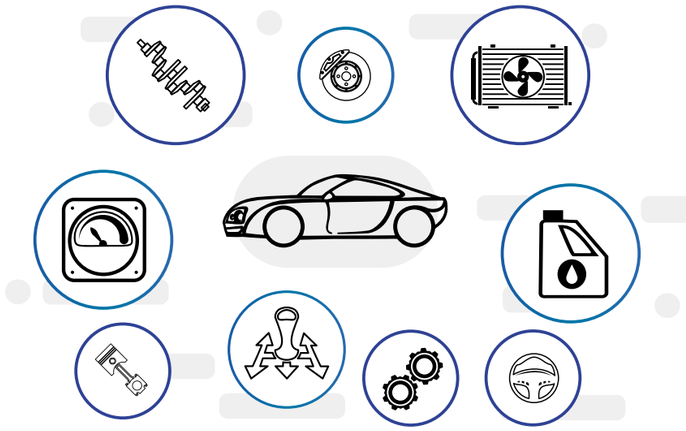
Benefits:

» Excellent cooling system protection
» Provides excellent heat transfer characteristics
» Compatible with rubber hoses used in cooling systems.

ANTIFREEZE COOLANT
100% CONCENTRATED

Benefits:

» Contains advanced inhibitor technology for maximum corrosion protection of all cooling system metals.
» Protects aluminium, steel, cast iron, solder, copper and brass
» Safe for all hoses, gaskets and seals.



NORDLUB
EVERYTHING YOUR CAR DESERVES

NOOR ALKADDAH

FULFILL YOUR REQUIREMENTS!

EP - MP LITHIUM GREASE

A specially developed multi-purpose lithium complex grease for lubricating all anti-friction and plain bearings for use in industrial and automotive applications. The grease has shown exceptional performance providing extended lubrication intervals over a wide operating temperature range.

FEATURES AND BENEFITS

Wide operating temperature range Extra protection against rust and corrosion, Good pump ability in centralized systems Good resistance to water washout, Excellent stuc-tural stability

LITHIUM GREASE MP 1

Meets and exceeds for MP1 ISO 6743-9 L-XBCEB 1, DIN 51502 KPIK-30

TYPICAL PROPERTIES:

TEST	TEST METHOD	RESULT
NLGI Grade	ASTM D217	1
Color	Visual	Yellow-Brown-Black
Appearance	Visual	Smooth
Operating Temperature range, °C	-	-25 to 100
Penetration @ 25°C, 0.1 mm	ASTM D217	335-320
Dropping point, °C	IP 396/DIN ISO 2176	≥176
Kinematic viscosity of the base oil @40°C, mm2/s	ASTM D445	220

LITHIUM GREASE EP 2

Meets and exceeds for EP2 ISO 6743-9 L-XBEHB 2, DIN 51502 KP2P-20

TYPICAL PROPERTIES:

TEST	TEST METHOD	RESULT
NLGI Grade	ASTM D217	2
Color	Visual	Yellow-Brown-Black
Appearance	Visual	Smooth
Operating Temperature range, °C	-	-25 to 140
Penetration @ 25°C, 0.1 mm	ASTM D217	265 -295
Dropping point, °C	IP 396/DIN ISO 2176	≥194
Kinematic viscosity of the base oil @40°C, mm2/s	ASTM D445	165

LITHIUM GREASE MP 2

Meets and exceeds for MP2 ISO 6743-9. L-XBCEA 2, DIN 51502 K2K-25

TYPICAL PROPERTIES:

TEST	TEST METHOD	RESULT
NLGI Grade	ASTM D217	2
Color	Visual	Yellow Brown Black
Appearance	Visual	Smooth
Operating Temperature range, °C	-	-25 to 120
Penetration @ 25°C, 0.1 mm	ASTM D217	265-295
Dropping point, °C	IP 396/DIN ISO 2176	≥184
Kinematic viscosity of the base oil @40°C, mm2/s	ASTM D445	151

LITHIUM GREASE EP 3

Meets and exceeds for EP3 ISO 6743-9 L-XBDHB 3, DIN 51502 P3N-20

TYPICAL PROPERTIES:

TEST	TEST METHOD	RESULT
NLGI Grade	ASTM D217	3
Color	Visual	Yellow-Brown-Black
Appearance	Visual	Smooth
Operating Temperature range, °C	-	-25 to 140
Penetration @ 25°C, 0.1 mm	ASTM D217	220-250
Dropping point, °C	IP 396/DIN ISO 2176	≥194
Kinematic viscosity of the base oil @40°C, mm2/s	ASTM D445	165

LITHIUM GREASE MP 3

Meets and exceeds for MP3 ISO 6743-9: L-XBCEA 3, DIN 51502 KPIK-30

TYPICAL PROPERTIES:

TEST	TEST METHOD	RESULT
NLGI Grade	ASTM D217	3
Color	Visual	Yellow-Brown-Black
Appearance	Visual	Smooth
Operating Temperature range, °C	-	-25 to 120
Penetration @ 25°C, 0.1 mm	ASTM D217	220-250
Dropping point, °C	IP 396/DIN ISO 2176	≥184
Kinematic viscosity of the base oil @40°C, mm2/s	ASTM D445	151

EP - MP CALCIUM GREASE

Thickened by calcium stearate with mineral oil. This Calcium Base Grease has excellent water resistant property, mechanical stability and lubricating perfomances.

FEATURES AND BENEFITS

Particular anti-water property of calcium sterate soap. Can be applied to damp and water presented environment, Perfect and well distributed fibre structure of its thickener offer preferable structure characteristic of grease with shear force. Do not contain any heavy metal, nitrite and other chemicals that will do harm to human's health and pollute environment.

CALCIUM GREASE MP 2

Meets and exceeds for MP2 ISO 6743-9. L-XBCEA 2, DIN 51502 K2K-25

TYPICAL PROPERTIES:

TEST	TEST METHOD	RESULT
NLGI Grade	ASTM D217	2
Color	Visual	Yellow-Brown-Black
Appearance	Visual	Smooth
Operating Temperature range, °C	-	-25 to 120
Penetration @ 25°C, 0.1 mm	ASTM D217	265-295
Dropping point, °C	IP 396/DIN ISO 2176	≥100
Kinematic viscosity of the base oil @40°C, mm2/s	ASTM D445	151

CALCIUM GREASE EP 2

Meets and exceeds for EP2 ISO 6743-9 L-XBEHB 2, DIN 51502 KP2P-20

TYPICAL PROPERTIES:

TEST	TEST METHOD	RESULT
NLGI Grade	ASTM D217	2
Color	Visual	Yellow-Brown-Black
Appearance	Visual	Smooth
Operating Temperature range, °C	-	-25 to 140
Penetration @ 25°C, 0.1 mm	ASTM D217	265 -295
Dropping point, °C	IP 396/DIN ISO 2176	≥175
Kinematic viscosity of the base oil @40°C, mm2/s	ASTM D445	165

CALCIUM GREASE MP 3

Meets and exceeds for MP3 ISO 6743-9: L-XBCEA 3, DIN 51502 KPIK-30

TYPICAL PROPERTIES:

TEST	TEST METHOD	RESULT
NLGI Grade	ASTM D217	3
Color	Visual	Yellow-Brown-Black
Appearance	Visual	Smooth
Operating Temperature range, °C	-	-25 to 120
Penetration @ 25°C, 0.1 mm	ASTM D217	200-250
Dropping point, °C	IP 396/DIN ISO 2176	≥100
Kinematic viscosity of the base oil @40°C, mm2/s	ASTM D445	148

CALCIUM GREASE EP 3

Meets and exceeds for EP3 ISO 6743-9 L-XBDHB 3, DIN 51502 P3N-20

TYPICAL PROPERTIES:

TEST	TEST METHOD	RESULT
NLGI Grade	ASTM D217	3
Color	Visual	Yellow-Brown-Black
Appearance	Visual	Smooth
Operating Temperature range, °C	-	-30°C to +130°C
Penetration @ 25°C, 0.1 mm	ASTM D217	220-250
Dropping point, °C	IP 396/DIN ISO 2176	≥140
Kinematic viscosity of the base oil @40°C, mm2/s	ASTM D445	165

MARINE OIL

Marine oil is a superior quality, high alkaline marine cylinder oil is designed for use in modern high output cross head diesel engine burning bunker fuels. It is a blend of high quality base stocks and advanced technology additives which provides high load carrying capacity thermal stability and high level of alkalinity retention.
Excellent oxidation stability Conforms the requirements of all major OEM

MARINE LUBRICANTS LIST

MARINE	DESCRIPTION
	Cylinder oil (100BN, SAE 50) for new generation crosshead engines using high-sulfur fuel
	Cylinder ail (708N, SAE 50) for large crosshead engines
	Cylinder oil (408N, SAE 50) for large crosshead engines using low-sulfur fuel
CYLINDER OIL	Cylinder all (25BN, SAE 50) for crosshead engines using low-sulfur fuel (less than 0.1%5)
	CYLINDER OIL Cylinder ail (506N, SAE 40) for large trunk piston engines
MARINE	DESCRIPTION
	System oil (7BN, SAE 30) for large crosshead engines
SYSTEM OIL	System oil (7BN, SAE 20) for large crosshead engines
MARINE	DESCRIPTION
	Diesel engine oils (10-40BN, SAE 40) for in-house power generation and co-generation
TRUNK PISTON	Diesel engine oil (50BN, SAE 40) for trunk piston engines
	Diesel engine oil (40BN, SAE 40) for trunk piston engines
ENGINE OIL	
	Diesel engine oil (30BN, SAE 40) for trunk piston engines
MARINE	DESCRIPTION
	Multigrade engine oil (15BN, SAE 10W-30) for small marine diesel engines
FISHING BOAT	Multigrade engine oil (15BN, SAE 15W-40) for small marine diesel engines
	Engine oil (13BN, SAE 30) for small marine diesel engines
ENGINE OIL	Engine oil (13BN, SAE 40) for small arine diesel engines
	Engine oil (30BN, SAE 20W50) for Small Diesel engines

TRAIN OIL

RAILROAD OIL OR LOCOMOTIVE

INDUSTRIAL OIL

HYDRAULIC ISO 46, HYDRAULIC ISO 68:

NORDLUB is a premium quality anti-oxidant, anti-wear & anti-rust hydraulic oil for industrial hydraulic applications. It is blended with selected high quality base stocks and special additives that deliver excellent demulsibility, superior oxidation & thermal stability and excellent load carrying capacity. It is applicable where hydraulic systems are susceptible to deposit build-up or where sludge and deposits form with conventional product systems containing gears and bears.

BENEFITS & ADVANTAGES:

- **High levels of wear protection and extended anti-rust performance**
- **Good detergent and dispersion characteristics**
- **Good corrosion protection and provides extreme resistance to oxidation**
- **Thermally stable and Increases extreme pressure performance**
- **Good air separation ability and foaming behavior**
- **Hydrolytic resistance**

Typical Properties

INDICATORS	UNITS	OIL GRADE HYDRADE ISO 46	OIL GRADE HYDRADE ISO 68
Kinematic viscosity at 40°C	mm²/s	41-51	61-75
Open-cup Flash Point	°C	210	220
Chilling Point	°C	-15	-15
Density @ 15°C	kg/L	0.878	0.881

TRANSMISSION OILS

GEAR OIL SAE 80, GEAR OIL SAE 90

NORDLUB is formulated for use in high-performance gearboxes that need to transfer high intermittent and abruptly occurring loads. It greatly reduces friction, and thus the temperature level, in gear drives subjected to high loads, which in turn leads to a reduction in wear. Its high load carrying capacity and anti-friction characteristics combine to offer superior performance in all industrial applications. It is formulated using a high viscosity index, solvent refined base oils and incorporates special Sulphur-phosphorous additive to provide optimum extreme pressure performance.

BENEFITS & ADVANTAGES:

- **Enclosed industrial gear drives, spur, bevel, helical, worm and industrial hypoid gear cases**
- **Open gear drives (heavy grades), plain and rolling element bearings**
- **Good corrosion protection and provides extreme resistance to oxidation**
- **Industrial type reduction gearboxes on mining equipment, cement mills, machine tools and marine equipment**

Typical Properties

INDICATORS	UNITS	GEAR OIL SAE 80	GEAR OIL SAE 90
Kinematic viscosity at 100°C	mm²/s	10	14-16
Viscosity index	-	90	_
Open-cup Flash Point	°C	128	158
Chilling Point	°C	-40	-20

GEAR LUBRICANT

GRADE 2 AND GRADE 3: HOMOGENEOUS GREASE COLOUR -FROM BROWN TO BLACK= PRODUCT IS LITHIUM COMPLEX EP3 WITH 10% MOLY:

Indicators	Gear lubricant OC II	
	grade Л	grade 3
1. Appearance	Homogeneous grease, colour from dark brown to black	
2. Ash content, %, max.	3	3
3. Corrosive attack on metal	endures	
4. Water content, mass %, max.	0.5	0.5
5. Mechanical impurities, mass %, max.	0.1	0.1
6. Mass content of free alkali expressed as KaOH, %,max.	0.3	0.3
7. Relative viscosity at 100 °C, deg.E	7 TO 10	2 TO 7

Grease of graphite oil for pantograph slides and antifreezing lubricant:

Indicators		Oil Grade	
Appearance	GRAPHITE GREASE	GRAPHITE GREASE	GRAPHITE GREASE
	Smooth homogeneous grease, colour - from light yellow to	Solid product, dark grey colour	Glue-like substance, colour- dark brown
Corrosion test	endures	-	-
Water content, mass	NO	-	-

OIL FOR DIESEL ENGINES, RPM CONTROLS, HYDRAULIC DRIVES AND HYDRAULIC TRANSMISSIONS:

DIESEL ENGINE OIL SAE 40 API CB), SAE 40 API CC), (SAE 50 API CC), (SAE 50 API CB)

Today's high tech trains require well-lubricated engines to run smoothly and cover long distances. Having a maintenance routine and using a high-quality RAILROAD DIESEL ENGINE OIL (RRDEO) are critical to the longevity of a railroad operation. Operators who select products that incorporate advanced technology reduce risk down the line, be it a short or cross-country, You'll also need to consider the oil grade of your RRDEO. The oil grade refers to the viscosity of the lubricant. It's typical to see two types of grades: 40W or SAE50. Most railroad manufacturers have moved to using only these two grades because they're much more efficient and provide smoother engine startup.

Typical Properties

INDICATORS	UNITS	SAE 40 API CB	SAE 40 API CC	SAE 50 API CC	SAE 50 API CB
Kinematic viscosity at 100°C	mm²/s	13.5-14.5	13.5-15	Min 20.5	Min 18-22
Open-cup Flash Point	°C	210	215	260	260
Chilling Point	°C	-12	-10	-18	-15
Density @ 20°C	kg/L	Min 0.910	Min 0.910	Max 0.897	Max 0.905
Viscosity index	-	85	92	92	92

STAY IN TOUCH WITH US!

SCAN ME

SCAN ME

SCAN ME

SCAN ME

SCAN ME

SCAN ME

SCAN ME

THANK YOU

NORDLUB

EVERYTHING YOUR CAR DESERVES

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FULFILL YOUR REQUIREMENTS!

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