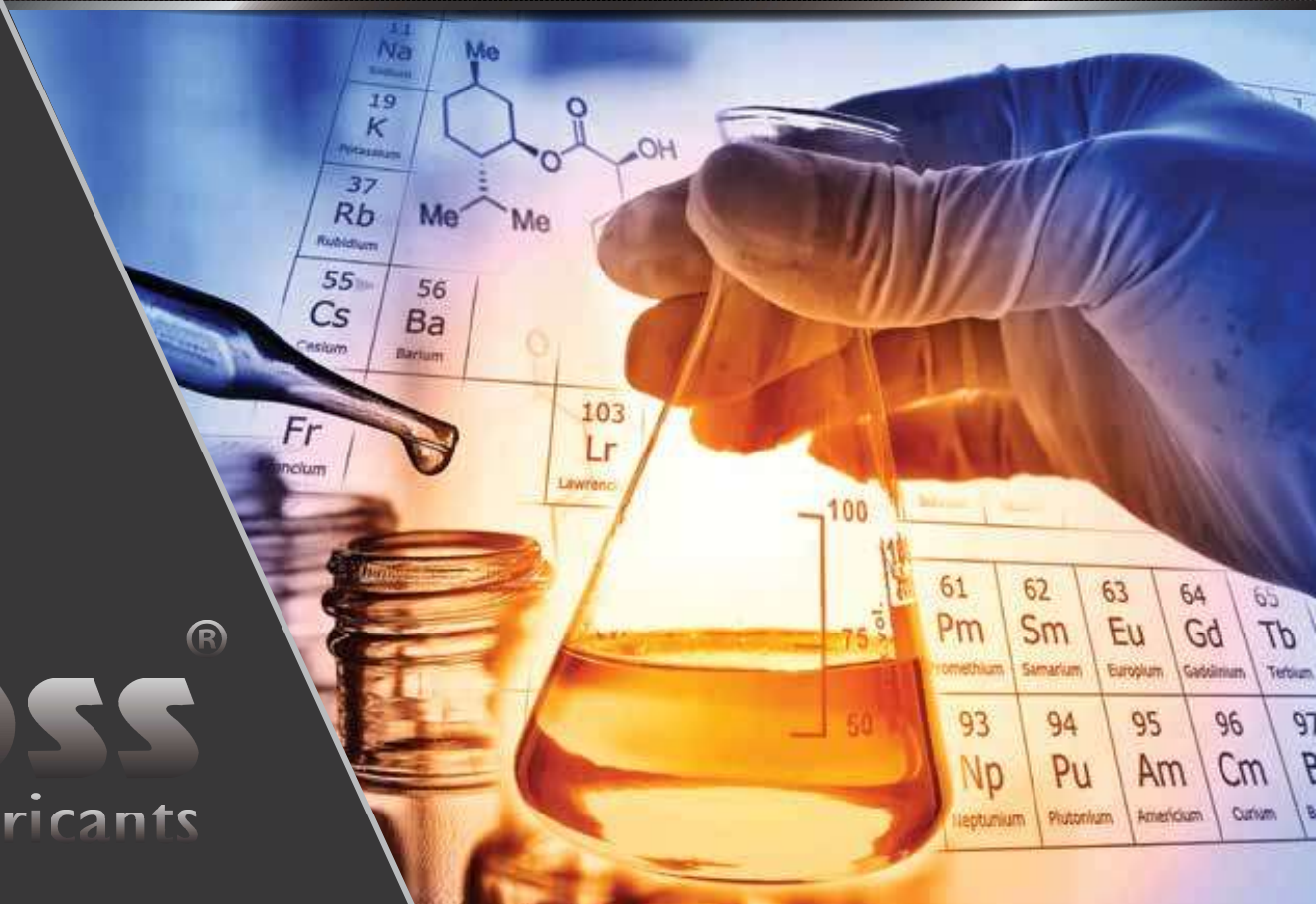


BOSS[®]
Lubricants



*The Best Oil meets the
Best Performance*

DIESEL ENGINE OIL



Description

BOSS Diesel Engine Oil is a premium quality lubricant suitable for mixed fleets use in naturally aspirated, turbo charged diesel engines in trucks and off highways vehicles, including the latest high performance diesel engines. These oils are specially formulated to provide excellent service stability, detergency and dispersancy level limiting oil thickening due to soot. These oils have very good antioxidant, antirust, antiwear and anticorrosion properties, meeting a wide range of API levels and SAE standards.

Application

Suitable for all diesel engines, turbo charger or normally aspirated operating on highway and off road under most severe conditions, loads and all seasons.

Suitable for diesel engines in low and high mileage applications: truck fleets, delivery vans, urban transport as well as construction and agricultural applications.

Benefits

The additive technology employed in this formulation gives engine extended life with the antirust and antiwear additives that protect the modern metals used in engines.

Special formulated additives achieve substantial fuel saving due to its outstanding thermal stability and oxidation resistance.

High dispersant additive keeps soot suspension, thus preventing thickening of lubricants and provides good protection against linear polishing.

Key Properties

S. No	Test Description	Test Method	Results								
			40	50	5W30	10W30	5W40	10W40	15W40	20W40	20W50
	SAE Grade		40	50	5W30	10W30	5W40	10W40	15W40	20W40	20W50
1	Appearance	Visual	C & B	C & B	C & B	C & B	C & B	C & B	C & B	C & B	C & B
2	Color	ASTM-D1500	2	<2.5	<2	<2	2	2	2,5	2,5	2,5
3	Viscosity @ 40 °C, cst	ASTM-D445	148,2	225,3	80,65	90,96	116,2	133,6	137,7	142,2	225,9
4	Viscosity @ 100 °C, cst	ASTM-D445	16,23	21,29	12,05	12,31	15,51	15,91	16,17	15,77	20,95
5	Viscosity Index	ASTM-D2270	116	113	145	130	141	126	125	116	110
6	Pour Point, °C	ASTM-D97	-8	-9	-41	-36	-42	-37	-33	-25	-28
7	Flash Point, °C (COC)	ASTM-D92	238	240	218	220	222	225	226	229	230
8	Water in Petroleum Products	ASTM-D95	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
9	Density @ 15 °C, Kg/L	ASTM-D1298	0,883	0,885	0,871	0,876	0,875	0,877	0,879	0,881	0,886
10	TBN, mg KOH/g	ASTM-D2896	6	7	11	10,5	11,5	11	12	11	11

Packing Size : 1L | 4L | 5L | 20L | 25L | 200L | 208L

Other packing size could be available upon request

Other grades of lubricants can be blended as per customer request. These typical results are of existing production, the future production will conform to our blending specifications hence any variation in these results will not affect the product performance.

MOTOR ENGINE OIL





Description

BOSS Motor Engine Oil is a premium quality lubricant that uses the latest additives with carefully selected performance and proportion, meeting a wide range of API levels and SAE standards, suitable for all year round use. Ensures easy cold start and fuel economics due to its extreme fluidity at low temperatures and maintains a very resistant oil film at high temperatures. It is recommended for gasoline, turbo charged and multi valved engines.

Application

Particularly recommended for all gasoline engines, cars and light vans.

Permits use at all temperature and all types of services in town and on high motorways.

Benefits

- High level of detergency-dispersancy minimizes sludge formation leading to cleaner engines
- Good thermal stability and oxidation resistance preventing any premature damage at high temperatures
- Reduction in internal friction leading to improved fuel economy
- Shear Stability ensuring satisfactory lubrication in service, both hot and cold temperature

Key Properties

S. No	Test Description	Test Method	Results								
			40	50	5W30	10W30	5W40	10W40	15W40	20W40	20W50
	SAE Grade		40	50	5W30	10W30	5W40	10W40	15W40	20W40	20W50
1	Appearance	Visual	C & B	C & B	C & B	C & B	C & B	C & B	C & B	C & B	C & B
2	Color	ASTM-D1500	2	2,5	<2	<2	2	2	2,5	2,5	2,5
3	Viscosity @ 40 °C, cst	ASTM-D445	146,4	213,3	80,81	88,25	121,8	133,1	130,3	139,8	201,1
4	Viscosity @ 100 °C, cst	ASTM-D445	16,01	20,87	11,91	12,15	15,81	16,11	15,79	15,50	20,5
5	Viscosity Index	ASTM-D2270	115	116	142	132	138	129	128	115	120
6	Pour Point, °C	ASTM-D97	-9	-8	-42	-37	-41	-36	-32	-27	-26
7	Flash Point, °C (COC)	ASTM-D92	235	238	215	219	223	222	225	230	232
8	Water in Petroleum Products	ASTM-D95	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
9	Density @ 15 °C, Kg/L	ASTM-D1298	0,880	0,886	0,870	0,875	0,876	0,875	0,878	0,880	0,883
10	TBN, mg KOH/g	ASTM-D2896	4,5	6	8	8	8,5	8,5	9,5	9	9

Packing Size : 1L | 4L | 5L | 20L | 25L | 200L | 208L

Other packing size could be available upon request

Other grades of lubricants can be blended as per customer request. These typical results are of existing production, the future production will conform to our blending specifications hence any variation in these results will not affect the product performance.

GEAR OIL



Description

BOSS Gear Oil is a premium quality lubricant specially manufactured in order to adapt to the most stringent requirements of manufacturers demanding high extreme pressures and antiwear levels, high temperatures and cleanness of transmission. Selected additives ensure excellent antifoam, anticorrosive, antitrust properties; meeting wide range of API levels and SAE grades.

Application

Suitable for mechanical transmission system working in severe conditions.

Suitable for lubricating mechanical gear boxes and reduction drives in lorries, trucks, agricultural and constructions machinery in severe operating conditions.

Specially developed for lubricating one or two-stage rear axels working at high temperature and for which the user requires an extended oil change interval.

Benefits

- Multifunctional use in many axels and gear boxes of a wide range. Increase extreme pressure and antiwear properties for an optimized lubrication hypoid and non-hypoid axels.
- Very good thermal performance guarantees the product stable under heavy loads and at high temperatures.
- Carefully designed frictional properties with base components selected to reduce vehicle fuel consumption.

Key Properties

S. No	Test Description	Test Method	Results			
	SAE Grade		90	140	80W90	85W140
1	Appearance	Visual	C & B	C & B	C & B	C & B
2	Color	ASTM-D1500	<2.5	<3.0	2,5	<3.5
3	Viscosity @ 40 °C, cst	ASTM-D445	190	359	140,1	344
4	Viscosity @ 100 °C, cst	ASTM-D445	17,51	26,01	15,01	25,5
5	Viscosity Index	ASTM-D2270	100	96	108	97
6	Pour Point, °C	ASTM-D97	-21	-15	-30	-19
7	Flash Point, °C (COC)	ASTM-D92	220	224	218	222
8	Water in Petroleum Products	ASTM-D95	Nil	Nil	Nil	Nil
9	Density @ 15 °C, Kg/L	ASTM-D1298	0,879	0,886	0,881	0,885

Packing Size : 1L | 4L | 5L | 20L | 25L | 200L | 208L

Other packing size could be available upon request

Other grades of lubricants can be blended as per customer request. These typical results are of existing production, the future production will conform to our blending specifications hence any variation in these results will not affect the product performance.

HYDRAULIC OIL



Description

BOSS Hydraulic Oil is a premium quality lubricant formulated for use in all kinds of hydraulic systems under the most difficult conditions, such as in machine tools, presses, industrial and mobile equipments. The oil has special antiwear properties with excellent shear stability, high viscosity index and thermal stability which makes it especially suitable for hydraulic systems.

Application

It is recommended for use in all kinds of hydraulic systems operating under high pressure and high temperature. It is also used for circulation systems, compressor, pump, bearing and gear lubrication where recommended.

Benefits

- Outstanding thermal stability
- Superior thermal oxidation stability avoiding sludge formation at high temperature and ensuring long service life of the fluid.
- Excellent protection against rust, corrosion and wear, insuring maximum equipment life.
- Low pour point ensure good fluidity in cold climates

Key Properties

S. No	Test Description	Test Method	Results						
	ISO VG Grade		22	32	46	68	100	150	220
1	Appearance	Visual	C & B	C & B	C & B	C & B	C & B	C & B	C & B
2	Color	ASTM-D1500	2,0	2,0	2,0	2,0	2,0	< 2.5	<2.5
3	Viscosity @ 40 °C, cst	ASTM-D445	22,5	32	46	68,5	100	150	220
4	Viscosity @ 100 °C, cst	ASTM-D445	4,35	5,37	6,74	8,81	11,29	15,25	20,09
5	Viscosity Index	ASTM-D2270	98	99	98	100	98	102	105
6	Pour Point, °C	ASTM-D97	-12	-10	-12	-12	-10	-10	-12
7	Flash Point, °C (COC)	ASTM-D92	201	204	208	208	210	212	216
8	Water in Petroleum Products	ASTM-D95	Nil	Nil	Nil	Nil	Nil	Nil	Nil
9	Density @ 15 °C, Kg/L	ASTM-D1298	0,864	0,865	0,869	0,873	0,872	0,875	0,877

Packing Size : 1L | 4L | 5L | 20L | 25L | 200L | 208L

Other packing size could be available upon request

Other grades of lubricants can be blended as per customer request. These typical results are of existing production, the future production will conform to our blending specifications hence any variation in these results will not affect the product performance.

AUTOMATIC TRANSMISSION FLUID



Description

BOSS ATF Oil is a premium quality fluid specially formulated with a high viscosity index, maintaining the performance levels for a longer period of use and preventing deposits, gums and varnish formation. Selected additives are used to provide higher antiwear, anticorrosion and antifoam ensuring no effects to elastomers and non ferrous metals like copper or alloys. These oils ensure precise and smooth automatic shifting of gears at very low speeds.

Application

It is formulated for use in all type of automatic gears, torque convertors, transmission systems, power steering and hydraulic circuits.

Benefits

- The Quality of gear changing implies a smooth clutching action without excessive slide and free from chatter.
- Low temperature fluidity to eliminate jerking and overloading of circuits when starting in very cold weather.
- Anti corrosion and anti rust property as well as high anti foaming property gives extended life and does not effects copper and seals.
- Anti wear properties protects gear toothing, thrust bearings and pumps.

Key Properties

S. No	Test Description	Test Method	Results		
	Type		Type A	DEX II	DEX III
1	Appearance	Visual	C & B	C & B	C & B
2	Color	ASTM-D1500	Red	Red	Red
3	Viscosity @ 40 °C, cst	ASTM-D445	51,35	46,01	46,05
4	Viscosity @ 100 °C, cst	ASTM-D445	7,501	7,001	6,953
5	Viscosity Index	ASTM-D2270	109	110	108
6	Pour Point, °C	ASTM-D97	-20	-23	-25
7	Flash Point, °C (COC)	ASTM-D92	200	203	206
8	Water in Petroleum Products	ASTM-D95	Nil	Nil	Nil
9	Density @ 15 °C, Kg/L	ASTM-D1298	0,851	0,862	0,865

Packing Size : 1L | 4L | 5L | 20L | 25L | 200L | 208L
Other packing size could be available upon request

Other grades of lubricants can be blended as per customer request. These typical results are of existing production, the future production will conform to our blending specifications hence any variation in these results will not affect the product performance.

2T AND 4T MOTORCYCLE OIL



Description

BOSS 4 Stroke Engine Oil is a premium quality lubricant specially formulated for modern 4-stroke motorcycle engines. The friction modifier-free formulation is designed to prevent clutch slippage, delivering maximum torque and power to the wheels.

BOSS 2 Stroke Engine Oil is a premium quality lubricant formulated for lubrication of two-stroke gasoline engines such as motorcycle, scooters, lawn mowers, chain saws, domestic and horticultural machines.

Application

BOSS 4T Motorcycle Oil is formulated for use in passenger car, light duty diesel & four stroke engines.

BOSS 2T Motorcycle Oil is formulated for use in all type of two stroke engines and two & three wheelers where API TC and JASO FC are required

Benefits

- Gives superior protection from heat
- Anti-rust fortified for superior rust prevention.
- Reduces oil thickening
- Keeps engine components clean
- Reduces Spark Plug Fouling and piston deposit
- Low Smoke, low ash formation

Key Properties

S. No	Test Description	Test Method	Results			
	SAE Grade		2T SAE 20	2T SAE 30	4T SAE 20W40	4T SAE 20W50
1	Appearance	Visual	C & B	C & B	C & B	C & B
2	Color	ASTM-D1500	Green/Blue	Green/Blue	2,5	2,5
3	Viscosity @ 40 °C, cst	ASTM-D445	71,87	107,2	150,3	229,2
4	Viscosity @ 100 °C, cst	ASTM-D445	9,125	11,97	15,86	20,65
5	Viscosity Index	ASTM-D2270	102	101	110	106
6	Pour Point, °C	ASTM-D97	-13	-15	-25	-27
7	Flash Point, °C (COC)	ASTM-D92	210	212	229	235
8	Water in Petroleum Products	ASTM-D95	Nil	Nil	Nil	Nil
9	Density @ 15 °C, Kg/L	ASTM-D1298	0,875	0,879	0,875	0,881
10	TBN, mg KOH/g		5,5	5,5	6	7

Packing Size : 500ML | 1L | 20L | 25L | 200L | 208L
Other packing size could be available upon request

Other grades of lubricants can be blended as per customer request. These typical results are of existing production, the future production will conform to our blending specifications hence any variation in these results will not affect the product performance.

BRAKE FLUID

COOLANT



Description

BOSS Brake Fluid is a premium quality fluid formulated from specially selected fluids with high dry and wet boiling points adjusted to high temperatures encountered in braking systems preventing vapor lock. The fluid provides protection for metals and used in the braking systems; and is compatible with rubber seals and hoses.

Application

It is particularly suitable for brake circuits in severe conditions. It is recommended for use in all passenger cars, trucks, buses and heavy duty vehicles where the manufacturer recommends the use of DOT 3 or DOT 4 fluids.

Benefits

- Excellent lubricity properties
- Smooth and safe braking response
- Very good seal compatibility
- Highly effective control over corrosion and rust

Key Properties

S. No	Test Description	Test Method	Results	
			DOT-3	DOT-4
1	Appearance	Visual	Light Amber	Light Amber
2	Viscosity @ -40 °C, mm ² /sec	ASTM-D2983	< 1500	< 1800
3	Viscosity @ 100 °C, cst	ASTM-D445	> 1.5	> 1.5
4	pH	ASTM-D1121	7 - 11.5	7 - 11.5
5	ERBP, °C	SAE J1703	240	265
6	Wet ERBP, °C	SAE J1703	148	163

Packing Size: 200ML | 250ML | 500ML

Other packing size could be available upon request

Other grades of lubricants can be blended as per customer request. These typical results are of existing production, the future production will conform to our blending specifications hence any variation in these results will not affect the product performance.

Description

BOSS Coolant / Antifreeze is a premium "long life" glycol based liquid coolant with selected rust and corrosion inhibitors which free amines, nitrates and phosphates. This coolant is available in various concentration as required for its application.

Application

It is recommended for use in all internal combustion engines, cars, trucks, agricultural and constructional machinery equipments. It can be used in 30 % - 70 % concentrated ethylene glycol as per freezing and boiling point requirements.

Benefits

- Provide long lasting protection against freezing and corrosion in cooling circuits.
- Chemical inhibitors minimize corrosion of copper, solder, brass, steel, cast, cast iron and aluminum metals which are commonly used in coolant systems.
- Excellent cooling provides improved reliability and reduced maintenance.

Key Properties

S. No	Physical Properties	Results		
		100%	50%	30%
1	Appearance	Green	Green	Green
2	Density @ 20 °C, Kg/L	1,109	1,056	1,041
3	Boiling Point, °C	160	120	115
4	Water Content, wt %	3,12	50	70
5	pH, 50% solution in water	8,5	8,2	8,1
6	Freezing Point, °C	-55	-37	-24

Packing Size: 5L | 20L | 25L | 200L | 208L

Other packing size could be available upon request

GREASE



Description

BOSS Grease is a premium quality multipurpose grease formulated with high quality base oils and a set of additive packages which includes oxidation and rust inhibitors. It is recommended for automotive and industrial applications operating in moderate temperatures and load. In general, it is intended to lubricate chassis components, wheel bearings, clutch bearings, universal joints and ball joints.

Application

It is formulated for use in automotive applications where a single product can satisfy the multiple service requirements. It is suitable for wheel bearing linkages, suspensions and general chassis lubrication over a wide range of temperatures. For extreme pressure usage, Lithium based grease is recommended as bearing is subjected to shock loading.

Benefits

- Excellent shear and oxidation stability which ensures satisfactory performance
- Effective lubrication under boundary condition
- High control over bearing components against rust
- Forms a thick tenacious coating on metal surfaces
- Good protection to metal surfaces from corrosion and high resistance to vibration

Key Properties

S. No	Test Description	Test Method	Results		
	NLGI		2	3	3
	Soap Type		Lithium	Lithium	Calcium
1	Appearance	Visual	Yellow	Yellow	Yellow
2	Penetration worked @ 25°C	ASTM-D217	265 - 295	220- 250	220- 250
3	Dropping Point	ASTM-D566	205	211	95

Packing Size: 200G | 500G | 1KG | 15KG | 180KG
Other packing size could be available upon request

Other grades of lubricants can be blended as per customer request. These typical results are of existing production, the future production will conform to our blending specifications hence any variation in these results will not affect the product performance.

OUTBOARD OIL



Description

BOSS Outboard Oil is a premium quality ashless two-stroke outboard lubricant formulated from high quality mineral base oils and ashless additive package. It is developed for high powered water-cooled outboard engines fitted with oil-injection or premix systems and provides very good level of cleanliness and protection.

Application

It is formulated for use in all water cooled two-stroke outboard engines where TC-W3 or earlier is required.

Benefits

- Effectively protects metal surfaces from corrosion
- Excellent low-temperature pumpability for all applications
- Provides maximum engine protection against rust, corrosion and sludge deposits
- Protects against failures due to scuffing, ring sticking, port deposits, bearing failures and plug fouling

Key Properties

S. No	Test Description	Test Method	Results
1	Appearance	Visual	C & B
2	Color	ASTM-D1500	Blue / Green
3	Viscosity @ 40 °C, cst	ASTM-D445	62,47
4	Viscosity @ 100 °C, cst	ASTM-D445	8,521
5	Viscosity Index	ASTM-D2270	108
6	Pour Point, °C	ASTM-D97	-18
7	Flash Point, °C (COC)	ASTM-D92	102
8	Water in Petroleum Products	ASTM-D95	Nil
9	Density @ 15 °C, Kg/L	ASTM-D1298	0,879
10	TBN, mg KOH/g	ASTM-D2896	5,2

Packing Size: 1L | 20L | 25L | 200L | 208L

Other packing size could be available upon request

Other grades of lubricants can be blended as per customer request. These typical results are of existing production, the future production will conform to our blending specifications hence any variation in these results will not affect the product performance.