



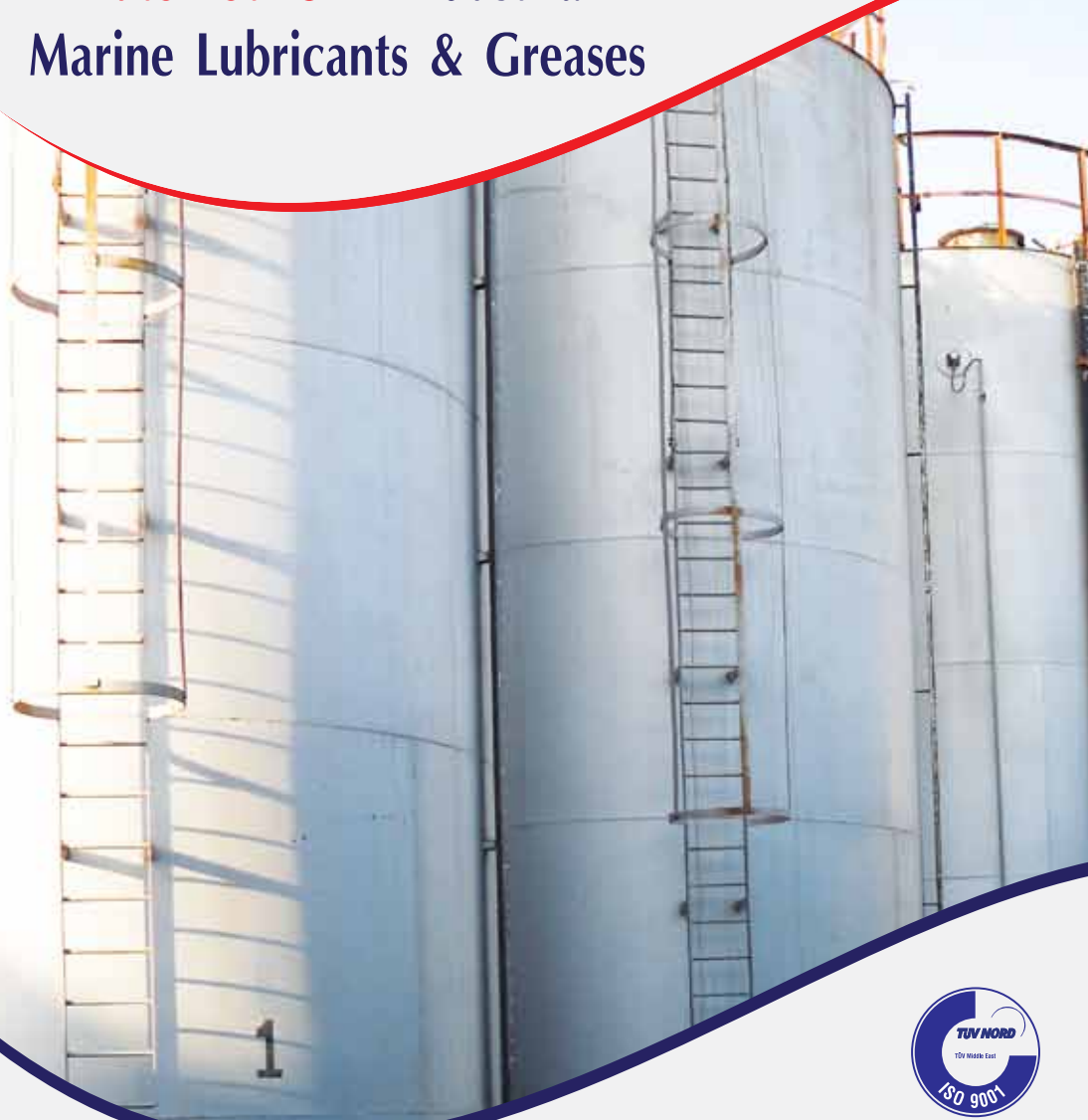
STARTEC[®]

Lubricants



100% Virgin Oil

Automotive | Industrial
Marine Lubricants & Greases



STARTEC Technology

Protects your engine and keeps it running, for a longer time

STARTEC believes in producing quality products resulting in total customer satisfaction. The Company was accredited with ISO 9001:2000 since its first year of production in 2007

STARTEC product lines include Automotive, Industrial and Marine Lubricants and Greases conforming to international standards. Equipped with State of the art production facilities and a highly trained professional work force, **STARTEC** is able to modify its product lines to meet specific customer needs.

Having established in the domestic front, **STARTEC** is currently planning to expand further into global markets. **STARTEC** can also offer special lubricants tailored to your own specific requirements.

STARTEC is in the process of establishing a network of agents and dealers to further boost exports and provide an effective better after-sales service to our valued customers in the region of Asia, Middle East and Africa.



STARTEC - RUBY MOTOR OIL SAE 40 / 50

API: SF/CD, SJ/CF

Applications:

RUBY is a premium quality mono-grade motor oil designed for its use in passenger cars, light trucks, construction, agriculture and power generation equipments, especially where multi-grade viscosities may be needed.

Properties:

- * Increase Engine Life.
- * Reduced wear and tear.
- * Maintain optimum viscosity at different temperatures.
- * Meets all Car-Warranty requirements.

Typical Characteristics:

SAE GRADE	40	50
Specific Gravity @ 15°C	0.896	0.897
Viscosity cst @ 100°C	15.2	19.3
Viscosity Index	99	100
Flash Point °C	>240	>240
Pour Point °C	-9	-9



Packing: 1, 4, 5, 20, 208 liters

STARTEC - DIAMOND DIESEL ENGINE OIL SAE 40 / 50

API: CD/CF/CF2/CF4/CH4

Applications:

DIAMOND is a high quality diesel engine oil with high detergent additive system designed for the lubrication of units burning low sulphur distillate fuels. It has enhanced protection against corrosion and wear.

Properties:

- * Enhance Engine Life.
- * Outstanding control over high temperature deposits.
- * Control of low temperature sludge and deposits.
- * Better alkalinity (TBN) retention and detergency.

Typical Characteristics:

SAE GRADE	40	50
Specific Gravity @ 15°C	0.894	0.896
Viscosity cst @ 100°C	14.3	19.6
Viscosity Index	105	110
Flash Point °C	>240	>245
Pour Point °C	-12	-12



Packing: 1, 4, 5, 20, 208 liters

STARTEC - EMERALD ENGINE OIL SAE 15W40

API: CF/CF2/CF4/CH4/CG4/CI4

Applications:

EMERALD is a high quality diesel engine oil providing extra-high performance designed for the lubrication of units burning low sulphur distillate fuels. It has a high detergent additive system with excellent TBN retention to ensure protection throughout the oil drain period.

Properties:

- * Prolonged Engine Life.
- * High Thermal and Oxidation stability.
- * Control of low temperature sludge and deposits.
- * Better alkalinity (TBN) retention and detergency.

Typical Characteristics:

SAE GRADE	15W40 CH4
Specific Gravity @ 15°C	0.894
Viscosity cst @ 100°C	15
Viscosity Index	135
Flash Point °C	>210
Pour Point °C	-24



Packing: 1, 4, 5, 20, 208 liters

STARTEC - SAPPHIRE MOTOR OIL SAE 20W50

API: SF/CD, SJ/CF, SL/CF

Applications:

SAPPHIRE is a high quality motor oil intended for use in passenger cars with turbo charged engines. Suitable mostly for new cars and trucks that require multi-grade properties, thereby ensuring protection throughout the oil drain period. It has enhanced protection against corrosion and wear.

Properties:

- * Outstanding control over high temperature deposits.
- * Control of low temperature sludge and deposits.
- * Reduced wear & tear, hence increasing engine life.
- * Maintain optimum viscosity at different temperatures
- * Better alkalinity (TBN) retention and detergency.

Typical Characteristics:

SAE GRADE	20W50 SL/CF
Specific Gravity @ 15°C	0.8926
Viscosity cst @ 100°C	18.5
Viscosity Index	120
Flash Point °C	230
Pour Point °C	-24

Packing: 1, 4, 5, 20, 208 liters



STARTEC - QUARTZ GEAR OIL SAE 90 / 140

API: GL-1, GL-4 & GL-5

Applications:

Quartz Automotive Gear Lubricant contains Sulphur and Phosphorus EP additives recommended specially for synchromesh transmissions for extra protection from severe loads. It ensures smooth gear changes and reduces wear, providing additional protection and non-foaming properties.

Properties:

- ✧ Excellent corrosion protection for steel and non-ferrous metals.
- ✧ Low foaming characteristics.
- ✧ Smooth and easy gear changes.

Typical Characteristics:

SAE GRADE	90	140	80W90	85W140
Specific Gravity @ 15°C	0.895	0.915	0.895	0.922
Viscosity cst @ 100°C	17.82	29.2	14.8	25.8
Viscosity Index	97	97	100	98
Flash Point °C	>220	240	198	>200
Pour Point °C	-6	-6	-12	-10



Packing: 1, 4, 5, 20, 208 liters

STARTEC - TOPAZ AUTOMOTIVE TRANSMISSION FLUID

TYPE A, DEXRON II & III

Applications:

TOPAZ Automotive Transmission Fluids are designed to withstand high pressures encountered in hydrostatic systems, and can be used in all modern gear boxes. It has a low pour point coupled with special additives to increase its oxidation resistance, rust protection and anti-wear properties. It is highly suitable for power steering units in passenger cars and commercial vehicles.

Properties:

- ✧ Anti-wear properties.
- ✧ Compatibility with seal materials.
- ✧ Fluidity over a wide range.
- ✧ Protection against deposit formation.

Typical Characteristics:

SAE GRADE	Type A	Dexron II	Dexron III
Specific Gravity @ 15°C	0.876	0.878	0.880
Viscosity cst @ 100°C	7.2	7.0	7.5
Viscosity Index	128	142	165
Flash Point °C	200	210	210
Pour Point °C	-30	-30	-36



Packing: 1, 4, 5, 20, 208 liters

STARTEC - HESSONITE HYDRAULIC OILS

Applications:

HESSONITE high quality Hydraulic Oils are formulated from premium quality, low evaporation base oil and fortified with anti-wear, anti-rust and oxidation inhibiting additives for superior performance.

Properties:

- * Highly oxidation resistant/ Low foaming.
- * Excellent de-aeration and demulsifying properties
- * Retain high level of cleanliness.
- * Good compatibility with elastomers.
- * Possess extreme properties to protect sliding surfaces against wear.
- * Exhibit minimal changes in viscosity under higher operating temperatures.

Typical Characteristics:

SAE GRADE	32	46	68	100
Specific Gravity @ 15°C	0.871	0.876	0.881	0.889
Viscosity cst @ 40°C	32	46	68	95
Viscosity Index	96	109	97	100
Flash Point °C	178	200	220	220
Pour Point °C	-18	-18	-12	-9

Packing: 1, 4, 5, 20, 208 liters



STARTEC - OPAL OUTBOARD ENGINE OIL 2-STROKE & 4-STROKE

Applications:

OPAL 2T are high quality engine oils formulated from high quality and highly refined mineral oils, balanced with additives to provide enhanced protection. They are specially blended for use in all Two-Stroke gasoline engines in automotive, industrial and agricultural applications. OPAL 4T is also a high quality non-friction modified gasoline engine oil designed especially for its use in four stroke motorcycles and portable power generation equipments

Properties:

- * Control of deposits and preservation of power.
- * Longer engine life.
- * Good oxidation stability, hence lower maintenance cost.

Typical Characteristics:

SAE GRADE	2T/30	4T/40
Specific Gravity @ 15°C	0.885	0.887
Viscosity cst @ 100°C	8.3	19
Viscosity Index	109	140
Flash Point °C	120	>220
Pour Point °C	-18	-21

Packing: 1/2, 1 liter



STARTEC - GARNET MULTI-PURPOSE GREASES WHEEL BEARING, GRAPHITE, CALCIUM AND LITHIUM BASE

Applications:

GARNET multi-purpose greases are premium quality grease that may be Wheel Bearing, Graphite, or of Calcium or Lithium base, manufactured from high quality base oils and selected additives. They can be used for commercial and industrial applications, and are also recommended for all types of plain and roller bearings.

Properties:

- ✧ Multi-purpose use.
- ✧ Good wear protection and high load carrying capacity.
- ✧ Resistant to oxidation; surface protection.
- ✧ High adherence, hence resistant to wash offs by water.

Packing: 500 gm, 1, 15, 180 kg



STARTEC - AQUA MARINE OILS

Applications:

AQUA marine oils exhibit a high level of detergency, dispensary, alkalinity and sulphated ash contents. It is formulated with high quality base oil in conjunction with latest additive technology to deliver a high load carrying capacity, excellent oxidation and high level of alkalinity retention. It is highly recommended for marine and industrial diesel engines including turbo charged models operating in all conditions.

Properties:

- ✧ Reduces port and valve deposits.
- ✧ Extends overhaul periods.
- ✧ Resistant to acid and thermal degradation.
- ✧ Reduce oil consumption.

Typical Characteristics:

SAE GRADE	40	50
Specific Gravity @ 15°C	0.911	0.915
Viscosity cst @ 100°C	14.6	20.8
Viscosity Index	96	96
Flash Point °C	226	245
Pour Point °C	40	50

Packing: 20, 208 liters



STARTEC - SPECIALITY/ INDUSTRIAL OILS

Cutting Oil | Cooling Oil | Brake Fluid - DOT 3 & DOT 4 | Anti-freeze Coolant
Industrial Gear Oils - 32, 46, 68, 100, 150, 220, 320, 460
Industrial Hydraulic Oil - 32, 46, 68, 100, 150, 220, 320
Circulation Oil | Vacuum Pump Oil | Transmission Oil
Heat Transfer 'Therm' Oil | Rock Oil | Flushing Oil | Rust Preventive Oil
Slideway Oil | Quenching Oil | Compressor Oil
All types of Semi-Synthetic & Synthetic Oils



100% Virgin Oil

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