

Shell Turbo Oil N

Premium Industrial Turbine Oil



Shell Turbo Oil N has been specially formulated to satisfy the demanding requirements of steam turbines and gas compressor in ammonia and synthesis gas applications.

Applications

- **Industrial applications**
Shell Turbo N was developed particularly for the lubrication of ammonia and synthesis gas compressors, requiring high quality rust and oxidation inhibited oils.

Advice on applications not covered in this leaflet may be obtained from your Shell Representative.

Performance Features and Advantages

- **Excellent corrosion protection**
Shell Turbo N is based on a blend of specially chosen highly refined base oils with specific selected additives to enhance the rust and corrosion properties. This results in a high level of corrosion protection for all metal surfaces, even when ammonia is the gas to be compressed.
- **Very good thermal and oxidation stability**
Resist the formation of sludge and other harmful products formed by oil oxidation.
- **Excellent oil/water separation properties**
Easy drainage of excess water from lubrication systems.
- **Very good air release characteristics**
Very effective air-release minimises air entrapment.
Turbo N also has a minimal tendency for foam formation.

Specification and Approvals

Shell Turbo N greatly exceeds the requirements of DIN 51515-1 and AR turbine oils with air-release requirements according to ISO 8068.

Miscibility and compatibility

Shell Turbo N is fully miscible and compatible with other mineral turbine oils, although dilution with other lubricants will markedly reduce its performance and may result in significant reduction of service life time.

Health and Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet which can be obtained from your Shell representative.

Protect the environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

Typical Physical Characteristics

Turbo N			46
Viscosity grade			46
Kinematic viscosity		DIN 51562-1	
at 40°C	mm ² /s		49
at 100°C	mm ² /s		6,9
Density at 15°C	kg/m ³	DIN 51757	872
Flashpoint COC	°C	DIN ISO 2592	230
Pourpoint	°C	DIN ISO 3016	-6
Neutralisation value	mg KOH/g	DIN 51558-1	0,01
Air release at 50°C	min	DIN 51381	4
Copper corrosion		DIN EN ISO 2160	1-100 A3
Rust-preventing properties after 24 h		DIN 51585	0-A

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.