

Torque Excellent 800 ISO 68

Premium Synthetic Lubricating Oil for Rotary Air Compressors

Technical Information Sheet

- Extended service life •
- Improved efficiency •
- Heavy duty applications

Torque Excellent 800 ISO 68 is primarily an advanced synthetic oil designed to provide high performance lubrication for pallet or screw air compressors. The oil is formulated with uniquely selected additives to ensure excellent protection and performance of compressors with oil drain intervals of 10,000 hours and up to 12,000 hours under certain conditions. Torque Excellent 800 ISO 68 is also excellent for the lubrication of systems requiring a synthetic bearing and circulating oil of type "R&O" (ISO VG 32-68).

Performance, Features and Benefits

Extended service life and savings on maintenance

Torque Excellent 800 ISO 68 can offer oil change intervals of up to 10,000 hours (if allowed by the manufacturers) even at maximum discharge gas temperatures above 100°C. This can be extended to 12,000 hours under certain conditions.

The advanced formulation of Torque Excellent 800 ISO 68 achieves exceptional oil life thanks to:

• Exceptional resistance to chemical and thermal degradation.

• To resist the formation of deposits on rotating components in screw compressors for a continuous efficient operation.

• Exceptional resistance to deposit formation which a very high cleanliness of internal surfaces helps to preserve, especially in oil/air separator and coalescing filter systems.

The maintenance interval depends on the quality of air intake, operating and environmental conditions.

For warm and humid climates such as those found in the Asia-Pacific regions, a shorter 10,000 hours oil change recommended (refer to OEM recommendations).

• Exceptional wear protection

Torque Excellent 800 ISO 68 offers excellent protection of internal metal surfaces against corrosion and wear.

It incorporates an advanced ashless anti-wear system that the life of critical parts such as bearings and gears lengthened.

• Maintaining System Efficiency

Torque Excellent 800 ISO 68 provides rapid air release without excessive foaming for efficient operation even under harsh operating conditions to ensure a reliable start and continuous availability of compressed air.

Torque Excellent 800 ISO 68 also has low volatility leading to lower evaporation and oil transfer in the compressor, so that oil is topped up less often, in combination with an increased air quality.

In addition, Torque Excellent 800 ISO 68 provides an excellent water separating ability to maintain a continuous efficient operation of the compressor, even in presence of water.

Applications

• Pallet or screw air compressors

Torque Excellent 800 ISO 68 is suitable for use in oil submerged/oil injected one or two stage pallet or screw air compressors.

• Harsh Operating Conditions

Can also be used where the ambient temperature is exceptionally high or humid.

Oil for bearing and circulation system

Excellent for the lubrication of systems for which

a synthetic bearing and circulating oil of the "R&D" type (ISO VG 32-68) is required and benefits from increased resistance to the formation of deposits, improved fluidity at low temperature and lower operating temperatures.

Specifications, Approvals and Recommendations

·ISO 6743-3:2003(E) L-DAJ

Torque Excellent 800 ISO 68 is ABB approved for use in VTR turbochargers, with a maximum oil change interval of 5,000 hours.

For a complete overview of approvals and recommendations.

Compatibility and Mixability

Compatibility

Torque Excellent 800 ISO 68 oils are completely miscible with mineral oils, but mixing with these lubricants will significantly reduce performance. One should avoid that Torque Excellent 800 ISO 68 is not mixed with certain other types of synthetic fluids.

Seal Compatibility

Torque Excellent 800 ISO 68 oils are compatible with specified elastomers for use with mineral oils.

Analytical figures

Characteristics			Method	Torque Excellent 800 ISO 68	
ISO Viscosity Class			ISO 3448	68	
Kinematic Viscosity	@400C	mm2 /s	ASTM D445	68	
Kinematic Viscosity	@1000C	mm2 /s	ASTM D445	10.2	
Viscosity Index			DIN ISO 2909	135	
Density	@150C	kg/m3	ASTM D 1298	848	
Vlampunt (COC)			ASTM D92	248	
Air Separation			minutes	ASTM D3427	4
FZG Test			LS Fail	CEC-L-07-A-95	12
Stolpunt			0C	ASTM D97	-48
Water separation	@540C	minutes	ASTM D1401	10	

The above values are typical for current production.

Health, Safety and Environment

Health and Safety

Torque Excellent 800 ISO 68 is used as directed in its intended applications and when good industrial and personal hygiene are observed, it is unlikely that any health or safety hazards will arise.

Avoid skin contact. Wear oil-tight gloves with used oil. After skin contact, wash immediately with soap and water.

Additional safety and health information is available on the appropriate safety data sheet.

·Protect the environment

Dispose of used oil through an authorized disposal company. Prevent leakage to sewer, soil or surface water.

Additional information

Advice

Advice on applications not provided in this data sheet can be obtained from your Edmac representative obtained.

Viscosity - Temperature Diagram.

