Technical Data Sheet

Formerly Known As: **SynLube 751-46**

Shell Corena *S5 A 46*

- Long Life
- High temperature applications
- High pressure applications

High quality Polyalkylene Glycol (PAG) Synthetic fluid for rotary screw air compressors

Shell Corena S5 A is a long oil life, top tier synthetic lubricant based on polyalkylene glycol (PAG) technology and is designed for rotary screw air compressors. The product allows for longer oil drain intervals and helps to operate cleaner and efficiently in higher temperature and pressure applications in challenging operations.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Longer oil life**

  Shell Corena S5 A can provide oil change intervals up to 8,000-10,000 hours ((where allowed by equipment manufacturer, maintenance service intervals, operating conditions, and environmental conditions).

- **Compressor protection**

  Shell Corena S5 A provides excellent corrosion and wear protection to help prolong life of critical parts such as bearings and gears with low change in viscosity and acid number.

- **Excellent system efficiency properties**

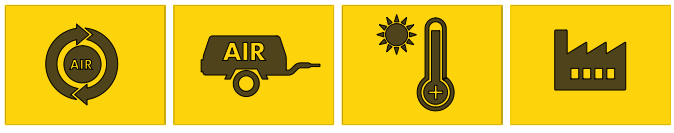
  Shell Corena S5 A helps to handle high temperatures and pressures and cool the compressor more efficiently to help reduce equipment and fluid maintenance.

  The fluid also provides high flash and fire point protection with low foam tendency.

- **Excellent Varnish and Sludge Control**

  The fluid is formulated with inherently oxidatively stable base oil and together with effective inhibitors to provide excellent resistance to varnish and sludge formulation even in harsh operating conditions.

Main Applications



- **Rotary sliding vane and screw air compressors**

  Shell Corena S5 A is suitable for use in oil-flooded or oil injected screw air compressors.

- **Severe service conditions**

  Shell Corena S5 A is suitable for applications requiring high capacity, reliability, multi-stage compression, hot and humid environments, and operations in low air quality conditions.

Specifications, Approvals & Recommendations

- ISO 6743-3 L-DAJ

  For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

Compatibility & Miscibility

- **Change-over Procedure**

  Shell Corena S5 A contains polyalkylene glycols and is not compatible with mineral oils, most synthetic esters, or PAO lubricant types. Care should be taken when changing from such products to Shell Corena S5 A.

Typical Physical Characteristics

Properties			Method	Shell Corena S5 A 46
ISO Viscosity Grade				46
Kinematic Viscosity	@40°C	mm^2/s	ASTM D445	46.0
Density	@15°C	g/cm^3	ASTM D4052	0.986
Flash Point		°C	ASTM D92	263

These characteristics are typical of current production. Whilst future production will conform to Shell's specification,

variations in these characteristics may occur.

Health, Safety & Environment

- **Health and Safety**

  Shell Corena S5 A 46 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

  Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

  Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from https://www.epc.shell.com/

- **Protect the Environment**

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

Additional Information

- **Advice**

  Advice on applications not covered here may be obtained from your Shell representative.