



## PRODUCT INFORMATION

# STELLUS 460

(CODE: 7110)

### Description

**Stellus 460** is an ISO 460 viscosity steam cylinder oil, compounded with a fatty oil to improve lubricity in the presence of wet steam to ensure adequate lubrication and low wear rates in all types of reciprocating steam engines.

### Summary of benefits

- **Excellent lubricity and wetability:** High viscosity mineral oil compounded with selected fatty oils provides high film strength ensures that the oil adheres to the cylinder walls and other sliding surfaces.
- **Emulsifies readily:** Compounding agent gives it the ability to emulsify readily with the water in saturated steam and to resist being washed off cylinder and valve faces and thus maintain lubrication.
- **Separates readily from condensate:** Choice and low concentration of compounding matter gives it the ability to separate readily from condensate, provided efficient filtering systems are used. This ensures boiler heating surfaces and heaters are maintained at efficient levels and are not impaired by oily deposits.
- **Long service life:** Good oxidation and thermal stability of the refined fatty compounding material resist oil breakdown with heat.
- **Improved load carrying ability:** The compounding matter in Summit AX improves its load carrying capacity when used as a gear lubricant particularly, in industrial worm-drive gearboxes where the action is completely sliding.
- Steam cylinder and valve lubrication of non-condensing steam engines where the steam is wet or of low quality. It provides lubrication for the sliding surfaces of pistons, valves and piston and valve rods where they pass through glands in steam and valve chests.
- It is designed for saturated steam in the 700 to 1000 kPa pressure range and temperatures up to 260°C.
- Where steam is generated for purposes other than for use in engines, such as hospital boiler installations, processing plants such as canneries, etc., it be used in lubricators fitted to boiler ancillary equipment, e.g. the lubricators fitted to the shuttle valve chests of "Weir" boiler feed water pumps,
- As a worm gear lubricant in industrial gearboxes where an ISO 460 non-extreme pressure gear oil is allowable.
- It is **not** recommended for worm-drive differentials in automotive vehicles.

### Specifications

ANSI / AGMA 7 Comp requirements.

### Storage

All packages should be stored under cover to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C.

### Health, Safety and Environment

Health and safety and environmental information is provided for this product in the relevant Materials Safety Data Sheet which can be obtained by contacting Royal Precision Lubricants on (03) 9553 0840.

### Typical characteristics

Density at 15°C	0.905
Flash Point, °C	240
Foam Tendency, all sequences, mL	5
Pour Point, °C	-7
Rust Protection, Salt Water, D665B	pass
Saponifiable Matter, %m	5
Viscosity, cSt at 40°C	430
Viscosity, cSt at 100°C	28.5
Viscosity Index	93

*Typical characteristics are only a guide to industry and are not necessarily manufacturing or marketing specifications and do not constitute a legal liability.*