



Formerly Known As: Shell Valvata J

# Shell Omala S1 W 460

Reliable ProtectionWorm Drive Applications

### Industrial Gear Oils

Shell Omala S1 W oils are quality refined, high viscosity mineral oils compounded with a small percentage of fatty oils. They are particularly suitable for the lubrication of low speed enclosed gears and worm drive application. They are also suitable for the lubrication of high temperature, high pressure steam cylinders.

# **DESIGNED TO MEET CHALLENGES**

# Performance, Features & Benefits

# • Oil life - Maintenance saving

Shell Omala S1 W possesses low volatility and a natural resistance to the formation of gummy or carbonaceous deposits in high temperature conditions to give consistent performance through the lubrication maintenance intervals.

### · Wear protection

Provides a reliable oil film under low speed operation such as worm gear drives.

### **Main Applications**





### · Enclosed industrial worm gear systems

Shell Omala S1 W may be used to advantage in worm gears prone to suffer extensive wear and to reduce the bulk oil temperature. Typical examples are gears running at low speed under stop-start conditions.

# Typical Physical Characteristics

### · Steam cylinder lubrication

Suitable for steam cylinder applications working under high temperature and high pressure conditions.

For highly-loaded worm drives Shell Omala S4 WE is recommended.

For industrial enclosed spur and helical gear systems the Shell Omala "G" series is recommended.

For automotive hypoid gears, the appropriate Shell Spirax Oil should be used.

# Specifications, Approvals & Recommendations

• AGMA 9005-EO2 (CP)

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

Properties			Method	Omala S1 W 460
ISO Viscosity Grade			ISO 3448	460
Kinematic Viscosity	@40°C	mm²/s	ISO 3104	460
Kinematic Viscosity	@100°C	mm²/s	ISO 3104	31.2
Viscosity Index			ISO 2909	98
Density	@15°C	kg/m³	ISO 12185	887
Flash Point (COC)		°C	ISO 2592	318
Pour Point		°C	ISO 3016	-6

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 & Safety

This product 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.