

# **Shell Cassida Fluids HF**

# Multi-purpose oils for the food industry

Shell Cassida Fluids HF are very high performance, anti-wear multi-purpose lubricants, specially developed for use in machinery used in the food and beverage processing and packaging industry.

They are based on a careful blend of synthetic hydrocarbons (PAO) and selected additives chosen for the ability to meet the stringent requirements of the food industry. Approved by the USDA (H1), they are recommended for use where incidental contact with food may occur.

#### **Applications**

- Hydraulic systems
- Hydrostatic gears
- Airline lubrication (Shell Cassida Fluid HF 15)
- Plain and anti-friction bearings
- General purpose lubrication including light duty gearboxes
- Circulating oil systems

Shell Cassida Fluids HF are used where there is a possibility of incidental food contact.

## **Performance Features**

- Superior lubrication
   Base fluid has a natural ability to provide superior lubrication under the majority of operating conditions. Excellent, versatile performance in all recommended applications
- **Outstanding anti-wear performance** Long and reliable component life, resulting in greater plant utilisation
- **Excellent high temperature performance** Resist the formation of the harmful products of oxidation at elevated temperatures, resulting in long oil life
- Neutral smell and taste
   Essential of food industry lubricants

#### • High viscosity index

Minimum variation of viscosity with change in temperature, gives the opportunity to reduce the number of lubricants used on site, resulting in reduced inventory cost.

## Health & Safety

S004NJPW.00E 0199

- Good protection against corrosion Effective protection of all metal working surfaces.
- Formulated with FDA recognised components (Group 21 CFR 178.3570) to comply with the stringent demand throughout the food processing and packaging industry.
- USDA H1 Approved Authorised by the United States Department of Agriculture (USDA) as suitable for use as lubricants with incidental food contact in official establishments operating under the USDA meat and poultry products inspection programme.
- Approved for use in Kosher and Halal food production

#### **Performance Specifications**

Easily exceed the requirements of the following industries:

Hydraulic Specifications BS 6413/4 HM ISO 6743/4 HM DIN 51524 HLP

Gear Oil Specification DIN 51517 CLP

Seal Compatibility Compatible with the elastomers, gaskets, seals and paints normally used in lubrication systems employed in the food processing and packaging industry. Based on information available, Shell Cassida Fluids HF are unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of industrial and personal hygiene are maintained. Prolonged or repeated contact with the skin should be avoided.

For further information refer to the appropriate Shell Material Safety Data Sheet.

#### Protect the environment

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

Shell Cassida Fluid HF	15	22	32	46	68	100
Appearance	Water White	Water White	Water White	Water White	Water White	Water White
Density at 15 <sup>°</sup> C (kg/L)	0.819	0.824	0.829	0.833	0.837	0.838
Viscosity at 40 <sup>°</sup> C (cSt) IP 71	15	22	32	46	68	100
Viscosity at 100 <sup>°</sup> C (cSt) IP 71	4.0	4.8	6.1	8.0	10.4	14.0
Viscosity Index IP 226	122	133	140	142	143	143
Flash Point ( <sup>o</sup> C) COC IP 36	205	212	222	248	258	268
Pour Point ( <sup>O</sup> C) IP 15	<-60	<-60	<-60	<-60	<-55	< -55

Typical Physical Characteristics

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