



## SUNOCO SUNVIS 600+ ASHLESS HYDRAULIC OILS INHERENTLY BIODEGRADABLE HVI HYDRAULIC OILS

### OVERVIEW

**SUNOCO SUNVIS 600+ ASHLESS HYDRAULIC OILS** are high viscosity index (HVI), highly refined, premium quality, non-toxic, inherently biodegradable, zinc-free, anti-wear hydraulic oils developed for mobile and industrial equipment operating under high pressures and over a wide range of temperatures. **SUNOCO SUNVIS 600+ ASHLESS HYDRAULIC OILS** are ashless, have excellent thermal stability, low temperature properties and a lower pour point than conventional anti-wear hydraulic oils and are non-toxic to fish and other aquatic life. Designed for use in vane, rotary, and geared pumps, and compressors, as well as circulating systems and machine tools, **SUNOCO SUNVIS 600+ ASHLESS HYDRAULIC OILS** are commonly used in outdoor equipment due to their ability to handle wide temperature fluctuations.

### FEATURES & BENEFITS

**SUNOCO SUNVIS 600+ ASHLESS HYDRAULIC OILS** are characterized by their outstanding viscosity indexes and their ability to prevent wear, rust, oxidation, foam, air and water entrainment and provide excellent thermal stability in addition to their non-toxic and biodegradable nature. **SUNOCO SUNVIS 600+ ASHLESS HYDRAULIC OILS** are recommended for applications where the use of lubricants with stay-in-grade performance is required due to temperature fluctuations, OEM multi-grade fluid requirements, or higher fluid efficiency is desired and a fluid containing toxic heavy metals is restricted because of soil, water, or general environmental contamination concerns.

### APPLICATIONS

**SUNOCO SUNVIS 600+ ASHLESS HYDRAULIC OILS** are designed for use in modern hydraulic systems operating at high pressures and extreme temperature fluctuations. They are an excellent choice for areas located near water or that are environmentally sensitive such as national parks, wildlife refuges and ski resorts. These zinc-free oils are inherently biodegradable and designed for use in most major hydraulic pump manufacturers as well as off road mobile construction equipment. The additive system in these oils meets the requirements of pump manufacturers and machine tool builders and their hydraulic-specific, exceptionally shear stable viscosity index improver allows them to be used as an all-seasons fluid.

### SPECIFICATIONS

**AIST 127 • ASTM D6158-16 • Bosch Rexroth RDE 90235, 90245 • Conestoga Pump • DIN 51524 Part III, Anti-wear Hydraulic Oils (Type HLP) • Eaton-Vickers E-FDGN-TB002-E • Fives P-68, P-69, P-70 • Hitachi Advanced Hydraulic Oil • ISO 11158 (Type HV) • JCMAS P041 HK • Parker-Hannifin (Denison) HF-0, HF-1, HF-2, • SAE MS1004**

*SUNOCO SUNVIS 600+ ASHLESS HYDRAULIC are compatible with most zinc-containing hydraulic oils, however, mixing the two products will lessen the environmental and performance benefits.*

### TYPICAL PROPERTIES

Product Code	4893	4993	4973	4983	4923
Product	615+	622+	632+	646+	668+
Viscosity, cSt @ 40 °C, ASTM D445	15	22	32	46	68
Viscosity, cSt @ 100 °C, ASTM D445	3.5	4.8	6.2	7.5	8.9
Viscosity Index, min., ASTM D2270	140	140	140	140	140
Flash Point, °C, min., COC, ASTM D92	180	190	200	210	220
Pour Point, °C, max., ASTM D57	-55	-50	-50	-42	-37
TOST, hrs., ASTM D-943-04a	10,000+	10,000+	10,000+	10,000+	10,000+
Demulsibility, mins., max. ASTM D1401	<15	<15	<15	<15	<15
FZG Pass, Load Stage, ASTM D5182	-	-	12	12	12
Biodegradability in 28 days, OECD 301B, %	20-59	20-59	20-59	20-59	20-59
Dielectric Strength, kv, ASTM D877	>35	>35	>35	>35	>35

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