

ISO 32/46/68

High Performance Synthetic Renewable Hydraulic Fluid



EvoSyn Industrial Hydraulic Fluid is the first renewable and biodegradable hydraulic fluid formulated to meet both Ecolabel and Denison HF-0 performance requirements. They are produced from proprietary sustainable base oils which are made of specific and highly desirable molecules. The base oil imparts a novel combination of performance and environmental characteristics into the finished fluid. The additive package is optimized to satisfy the a wide range of industrial and heavy-duty hydraulic APPLICATIONS equipment requirements. This product is formulated with highly effective ashless inhibitors to control oxidation, wear, corrosion, and rust. A high viscosity index and low pour point allow for product use over a wider temperature range than most conventional hydraulic oils.

## APPLICATIONS

- Mobile construction equipment
- Forestry & Agriculture equipment
- Off-shore equipment
- Mining equipment
- Marine applications requiring VGP

## HIGHLIGHTS

FEATURES	BENEFITS
Exceptional anti-wear performance	Prevents wear of internal components, reduces system downtime, and extends equipment life
Outstanding thermal stability and resistance to oxidation	Extends service life even under high temperature
High viscosity index	Allows improved system operation over a wide temperature range
Excellent water separation properties	Minimizes the formation of emulsions to decrease downtime and maintain lubricant life
Low pour point	Can be used in very cold environments
High purity renewably-sourced synthetic hydrocarbon base oil	High performance and drop-in compatibility for mineral oil replacement, reducing dependence on petroleum
Ecolabel and VGP	Biodegradable and non-toxic to reduce environmental impact in case of leaks or spills
High Shear Stability	Minimal loss of viscosity in service

# EvoSyn™ Industrial Hydraulic Oil

## SPECIFICATIONS

### PERFORMANCE WILL MEET OR EXCEED

Parker Hannifin Hydraulics HF-0; Eaton Vickers Brochure 03-401-2010 (M-2950-S and I-865-S); DIN 51524 Part 2, Anti-wear hydraulic Oils; AIST 127

EcoLabel; VGP 2013 (Clean Water Act);

USDA BioPreferred: % of biobased content will satisfy requirements for USDA BioPreferred Program

## TYPICAL PROPERTIES

PROPERTY	TEST METHOD	ISO 32	ISO 46	ISO 68
Viscosity, cSt @ 40°C	ASTM D445	33.71	46	68
Viscosity, cSt @ 100°C	ASTM D445	6.4	7.9	10.7
Viscosity Index	ASTM D2270	155	155	155
Density @ 15°C (g/mL)	ASTM D4052	0.84	0.84	0.85
Pour Point, °C	ASTM D97	-37	-39	-36
Flash Point, °C	ASTM D92	238	220	220
Copper Corrosion	ASTM D130	1B	1B	1B
Oxidative Stability, minutes	ASTM D2272	1300	1300	1300
Demulsibility	ASTM 1401, 30 min	40-40-0	40-40-0	40-40-0
Foam, mL	ASTM D892	10/0 20/0 10/0	10/0 20/0 10/0	10/0 20/0 10/0
Rust	ASTM 665B	Pass	Pass	Pass
FZG, Fail Stage	ASTM D5182	12	>13	NA
Eaton-Vickers 35VQ25	ASTM D6973	Pass	NA	NA

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.