

Eastern Oil Company

590 South Paddock
Pontiac, MI 48341
248.333.1333
www.easternoil.com

ISO 9001 Registered

Product Comparison

Eastern Premium Hydraulic Oil ZF HVI
Zinc-Free, High Viscosity Index
ISO Viscosity Grades 15, 32, 46, 68, 100



Eastern Premium Hydraulic Zinc-Free (ZF), High Viscosity Index (HVI) Oils are high-quality, ashless, anti-wear hydraulic oils developed for use in a wide variety of industrial and mobile hydraulic system applications. They offer proven anti-wear performance, along with excellent thermal stability, oxidation stability, and hydrolytic stability. They also offer superior filterability required for today's sophisticated hydraulic systems. Eastern Premium Hydraulic ZF HVI Oils offer excellent air release and anti-foam properties with good water separation.

Features & Benefits

Products meet or exceed the following industry qualifications*

	Mobil DTE 10 Excel	Eastern PH ZF HVI	Shell Tellus S3 V
Virgin Base Stock	Yes	Yes	Yes
Anti-Wear	Yes	Yes	Yes
Zinc Containing	No	No	No
Rust Inhibitors	Yes	Yes	Yes
Oxidation Resistant	Yes	Yes	Yes
Thermal Stability	Yes	Yes	Yes
Long Oil Life	Yes	Yes	Yes
High Pressure Systems	Yes	Yes	Yes
Industrial Applications	Yes	Yes	Yes
Mobile Applications	Yes	Yes	Yes

*some industry specifications are viscosity dependent

Sources: Mobil DTE 10 Excel Series TDS (12.11.24), Tellus S3 V (VG) TDS, v 5.7
(27.01.2022.54)





Hydraulic Oil ZF HVI *National Brand* Product Comparisons

Typical Properties

Products meet or exceed the following industry qualifications*

	Mobil DTE 10 Excel	Eastern PH ZF HVI	Shell Tellus S3 V
ISO Viscosity Grades	15, 22, 32, 46, 68, 100, 150	32, 46, 68, 100	32, 46
Viscosity Index	≥121	≥130	162
Flash Point, F	≥410	≥421	≥410
Pour Point, C	≤-38	≤-33	-39
Foam Test I, II, III	Pass	Pass	No Data
Copper Corrosion D-130	1A-1B	1B	No Data
Rust Test, D-665 A&B	No Data	Pass	No Data

Specifications & Approvals

Products meet or exceed the following industry qualifications*

	Mobil DTE 10 Excel	Eastern PH ZF HVI	Shell Tellus S3 V
DIN 51524 Part 3	Yes	Yes	Yes
ISO 11158	Yes	Yes	Yes
US Steel 127 & 136 (ISO VG 32, 46, 68)	No Data	Yes	No Data
Cincinnati Machine P-68, P-69, P-70 (ISO VG 32, 68, 46)	Yes	Yes	Yes
Denison HF-0	Yes	Yes	Yes
Denison HF-1	Yes	Yes	Yes
Denison HF-2	Yes	Yes	Yes

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