

1 SCOPE

This standard applies to hydraulic fluids used on Husky injection molding machines.

2 PURPOSE

To provide a list of approved hydraulic fluids for use on Husky injection molding machines.

3 DOCUMENT CONTROL

Revisions to this document shall be authorized by Controls Engineering - Fluid Power.

4 APPROVED HYDRAULIC FLUIDS

Approved hydraulic fluids and respective properties are listed in table 1.

REVISION LOG

Rev.	Remarks
2	Added Chevron Clarity and Shell Tellus S3MX 46. Added columns Base Oil Group and Finished Oil Classification. Removed columns viscosity @ 100°C, Color, HF-0 Test, FZG and TOST (Jan. 29, 2026)
1	List of approved hydraulic fluids updated. Sorted by OEM (Jan. 29, 2025)
0	Original Issue (Feb. 02, 2022)

Table 1: Approved Hydraulic Fluids (Sorted by OEM)

OEM	Fluid	ISO Grade	Base Oil Group	Finished Oil Classification	Density @15°C (kg/m³)	Viscosity @40°C (cSt)	Viscosity Index	Pour Point (°C)	Flash Point (°C)	HPN
	Chevron Rando HD46	46	II	HM HLP	880	46	103	-31	190	2630838
	Chevron Clarity Synthetic	32	IV	HV, HS HLPV	842	31.3	184	-48	228	14088153
 (North America only)	Hydrotex Syn-Nth	46	IV	HS	870	48.2	197	-45	215	5145882
	Lubra Hidraulico ISO 46 SC Premium	46	II	HM HLP	878	43 – 48	93 Min	-21	218	7245570
	Lubriplate ZF-46	46	II	HM HLP Zinc Free	-	46.34	117	-37	243	9582172
	Lukoil Geyser ST 46	46	II	HM HLP	875	46	100	-27	230	7219240
	Mobil DTE 10 Excel 46	46	IV	HM HLP Zinc Free	850	46	164	-45	232	5576384
	Mobil DTE 25 Ultra	46	II	HM HLP	867	46.2	110	-33	238	9655634
	Petro-Canada Hydrex AW46	46	II	HM HLP	869	46	100	-36	227	2692298
	Petro-Canada Purity FG	46	IV	HM HLP Zinc Free	-	45.4	102	-18	245	8303421
	Phillips 66 Megaflow AW 46	46	II	HM HLP	853	46	102	-37	227	9581956
	Phillips 66 Powerflow NZ 46	46	II	HM HLP	851	45.7	105	-36	212	9581952
	Repsol Maker Hydraulic SC 46	46	II	HM HLP	-	46	98	-27	231	13334140
 (North America only)	Scheaffers 254-ISO 46	46	III + IV	HM HLP	855.9	45-51.2	102	-32	216	5145878

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	Shell Tellus S2 M 46	46	II	HM HLP	871	44	106	-30	238	2630836
	Shell Tellus S3 M 46	46	II	HM HLP	876	46	98	-30	218	3195680
	Shell Tellus S3 MX 46	46	II	HM HLP	866	46	106	-36	228	14087546
	Shell Tellus S4 ME 46	46	III	HV, HS HLPV	876	46	135	-51	250	5576385
	Total Azolla ZS46	46	II	HM HLP	880	46	102	-24	230	2692295