

LUBRICANTS AND RELATED PRODUCTS FOR INDUSTRIAL USE

INA Hidraol DVC

General Description - Application

INA Hidraol DVC are oils based on specially selected and treated highly refined paraffinic base oils containing antioxidant, antirust, antiwear and antifoam additives. Intended primarily for lubrication of three main types of hydraulic system pumps such as vane, piston and gear pumps. These universal hydraulic oil is formulated for all kind of hydraulic and drive units and numerically controlled system incorporated electro-hydraulic pulse motors and precise control valves sensitive to deposits and blocking. Other advantages include long life and excellent filterability to avoid filter blocking by deposits formed. Suitable for application in piston pumps containing steel-on-bronze contacts or yellow metal components.

Performance Level - Specifications

ISO 6743-4 L - HV, ISO 11158 HV

Parker Haniffin (Denison) HF-0 /HF-2 -(ISO VG 32, 46, 68 – approved)

DIN 51524/2 HLP

Cincinnati Machine P-68 (ISO VG 32) - approved

Cincinnati Machine P-70 (ISO VG 46) - approved

Cincinnati Machine P-69 (ISO VG 68) - approved

Sperry Vickers I-286 and M-2950-S

INA N 22-175 TIP 2

Properties	INA Hidraol DVC										Method
ISO - L - HM	5	10	15	22	32	46	68	100	220	320	ISO3448
Density at 15 °C, g/cm ³	0,866	0,860	0,862	0,866	0,876	0,876	0,881	0,885	0,895	0,899	ISO 3675
Kinematic viscosity, mm ² /s											
- at 0 °C	-	65	95	220	400	600	1400	2100	-	-	ISO 3104
- at 40 °C	5	10	15	22	32	46	68	100	220	320	
- at 100 °C	1,6	2,7	3,4	4,3	5,4	6,7	8,5	11,0	18,4	23,5	
Viscosity Index	92	97	97	100	100	100	95	94	92	93	ISO 2909
Flash Point, (COC), °C	110	140	145	180	185	220	220	230	240	250	ISO 2592
Pour Point, °C	<-40	-35	-33	-32	-30	-25	-25	-18	-12	-12	ISO 3016
Corrosion (Cu, 100 °C, 3 h)	1a										ISO 2160
Rust prevention	no rust										ISO 7120/A
Water separation:											
- time to 3 ml emulsion at 54°C, min	15							20			ISO 6614
Foam:											
- at 24 °C , ml/ml						50/0					ISO 6247
- at 93,5 °C , ml/ml						30/0					
- at 24 °C, ml/ml						10/0					
Hydrolytic Stability											
Copper Wt. Loss, mg/cm ²						0,04					ASTM D 2619
H2O Acidity, mg KOH/g						0,5					
Filterability/Denison											
Dry, s						140					Denison TP 02 100
Wet, s						180					
FZG load stage fail	-					10					DIN 51354

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.