



Daewoo Hydro DL

Industrial lubrication experts

Every industrial lubricant recommendation should be done after an expert consultation on the application in question. Only then the best lubricant can be selected. Oscar hydraulic oils series "Hydro DL" are fitted to all your industrial applications

Daewoo HydroDL series fitted to all your needs:

- HydroDL AW - high performance demulsifying AW/EP hydraulic and general lubricating oil
- HydroDL HLPD - high detergent HLPD/EP general lubricating and hydraulic oil with excellent corrosion protection
- HydroDL HVI - high performance emulsifying AW/EP hydraulic oil with a high Viscosity Index



• HydroDL AW - high performance demulsifying AW/EP hydraulic and general lubricating oil

DESCRIPTION

Daewoo HydroDL AW series are general lubricating and hydraulic oils with good ageing resistance and additives to improve corrosion protection. Good viscosity temperature behavior, good wear protection, demulsifying, good air release, contain zinc.

APPLICATION

For all systems, even if thermally-stressed.

SPECIFICATIONS

DIN 51524 PART 2, CATEGORY HM
 ISO 6743/4, CATEGORY HM
 MAN 698, Denison HF0, HF1, HF2

Product name	Density at 15 °C, kg/m ³	Flash point Cleveland, °C	Kinematic viscosity at 40 °C, mm ² /s	Kinematic viscosity at 100 °C, mm ² /s	Viscosity index	Pour point, °C
Daewoo Hydro DL 10	856	178	110	2,6	96	30-
Daewoo Hydro DL 22	863	180	22	4,4	107	27-
Daewoo Hydro DL 32	876	205	32	5,5	109	24-
Daewoo Hydro DL 46	875	210	46	6,9	105	24-
Daewoo Hydro DL 68	881	224	68	8,8	100	24-
Daewoo Hydro DL 100	881	232	100	11,1	96	18-
Daewoo Hydro DL 150	887	224	150	14,5	94	15-



• **HydroDL HLPD – high detergent HLPD/EP general lubricating and hydraulic oil with excellent corrosion protection**

DESCRIPTION

Daewoo HydroDL HLPD series are hydraulic fluids according to DIN 51 502 with outstanding corrosion protection, powerful cleaning and sludge transportation properties. Contain zinc as well as being detergent and dispersant. Used in a number of hydraulic systems as problem solvers, especially when standard oils cannot fulfil all the requirements.

APPLICATION

Daewoo HydroDL HLPD 10: for machine tool spindles and bobbin bearings in the textile industry. Daewoo HydroDL HLPD 22, 32, 68: Heavy-duty hydraulic oils with good corrosion protection up to continuous temperatures of 100 °C, for smaller gearboxes, especially when fitted with electromagnetic clutches. Daewoo HydroDL HLPD 100: For larger gearboxes.

SPECIFICATIONS

Fulfil and surpass the minimum demands on HLPD hydraulic oils according to DIN 51 524-2. ISO 6743/4-HM with high DD performance.

Product name	Density at 15 °C, kg/m ³	Flash point Cleveland, °C	Kinematic viscosity at 40 °C, mm ² /s	Kinematic viscosity at 100 °C, mm ² /s	Viscosity index	Pour point, °C
Daewoo HydroDL HLPD 2	807	75	2,2	-	-	42-
Daewoo HydroDL HLPD 5	837	85	5	1,7	83	36-
Daewoo HydroDL HLPD 10	852	166	10	2,6	91	30-
Daewoo HydroDL HLPD 22	868	165	22	4,3	105	30-
Daewoo HydroDL HLPD 32	875	210	32	5,4	102	30-
Daewoo HydroDL HLPD 46	877	220	46	6,9	105	27-
Daewoo HydroDL HLPD 68	881	225	68	8,9	105	24-
Daewoo HydroDL HLPD 100	883	248	100	11,4	100	18-
Daewoo HydroDL HLPD 150	889	250	150	14,8	98	18-
Daewoo HydroDL HLPD 320	903	265	320	24,8	99	12-
Daewoo HydroDL HLPD 460	907	297	460	31,0	95	9-



• **Hydro ND HVI – high performance emulsifying AW/EP hydraulic oil with a high Viscosity Index**

DESCRIPTION

Daewoo HydroND HVI series are hydraulic lubricating oils (machine oils) with a high Viscosity Index and additives to improve ageing resistance, corrosion protection and wear protection. Mineral oil-base and containing zinc.

APPLICATION

Suitable for all hydraulic systems, especially when a high viscosity index is specified or if excess viscosity during start-ups or insufficient viscosity at operating temperatures is a problem. High VI provides multi-grade characteristics.

SPECIFICATIONS

HVLP hydraulic and general lubricating oils according to DIN 51 524-3. ISO 6743/4, HV ISO 11158, HV. Denison HF0, HF1, HF2

Product name	Density at 15 °C, kg/m ³	Flash point Cleveland, °C	Kinematic viscosity at 40 °C, mm ² /s	Kinematic viscosity at 100 °C, mm ² /s	Viscosity index	Pour point, °C
Daewoo HydroND HVI 15	859	180	15	3,8	151	45-
Daewoo HydroND HVI 32	871	178	32	6,3	152	48-
Daewoo HydroND HVI 46	879	186	46	8,1	149	45-
Daewoo HydroND HVI 68	882	210	68	11,0	154	42-