

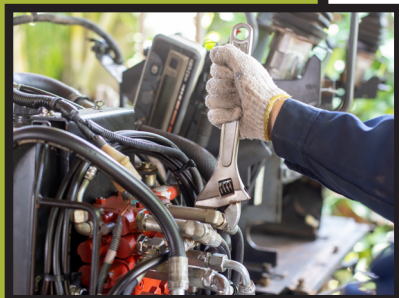


HYDRA-TRACE DE



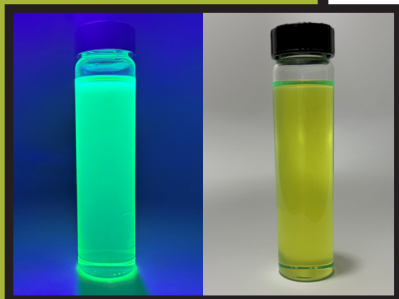
◆ MORE THAN JUST HYDRAULIC OIL

Hydra-Trace DE is the next generation in hydraulic solutions, as it is a hydraulic oil that is specially formulated to demulsify water. By dropping the water out of suspension, it allows free water to be drained from the bottom of the sump. Moisture elimination, combined with high concentrations of rust & corrosion inhibitors, will increase protection of the pump, valve, and cylinders from harmful corrosion. In addition, Hydra-Trace DE has approximately two and a half times the amount of anti-foam chemistry, when compared to industry standards. Since the product will not retain foam, you can be assured of the high-quality performance of your equipment under a wide variety of operating conditions.



◆ ELEVATED ANTI-WEAR AND SEAL PROTECTION ADDITIVES

One of the most important features of Hydra-Trace DE is its powerful anti-wear package. While the amount of zinc included in an anti-wear package is important, the type of zinc utilized is crucial. TRC uses a long-chemical-chain zinc compound capable of exceeding the manufacturer's severe pump tests. The anti-wear package has been proven to reduce the need for replacement parts under tough operating conditions and extend the life of vital parts even in extreme conditions. Cost savings are dramatic with the use of this anti-wear system. Hydra-Trace DE is also formulated to maintain pliability, allowing for seals to stay soft and elastic, which increases the life of the seals.



◆ ADVANCED CHEMISTRY RESULTS IN REDUCED COSTS

Hydra-Trace DE is designed to illuminate when flashed with a UV light. This added ultraviolet detection system allows for damaging leaks to be located quickly. The bright blue-green glow will help to locate the hard-to-find leaks that occur. Quick detection allows for quicker repairs which can result in thousands of dollars saved annually on wasted oil, all while eliminating potential slip hazards. In addition, this added detection system could help stave off environmental catastrophes. Increased safety while reducing overhead expenses is a win-win in any circumstance.



◆ ADDITIONAL ADDITIVE TECHNOLOGY

Another part of the extensive chemistry package is the use of superior hydro-processed base oils that allow the additive package to last longer than typical oils. The purity in these base oils helps Hydra-Trace DE increase additive retention. Additives that perform longer without breaking down allow Hydra-Trace DE to reduce friction longer, reduce heat more, and extend the life of pumps, valves, and cylinders. This advanced additive retention prevents oxidation, which leads to a significant reduction in sludge or varnish formation. This results in extended drain intervals and reduced maintenance costs, all backed by TRC's value-added No Cost Oil Analysis.



◆ **DEPENDABLE VERSATILITY**

Various equipment, from agriculture to manufacturing, is gravitating from gear drives to hydraulic systems. In these complex systems, tolerances are getting tighter, and the lubricants are tasked with doing more. Hydra-Trace DE can solve both wear issues and excessive heat issues, all while serving as an early detection system. The unique demulsibility of the Hydra-Trace DE allows for increased performance in humid or wet environments. Perfect for industrial settings, tight work areas, piers, car washes, manufacturing facilities, tire plants, concrete block plants, aggregate facilities, and many other areas that need a performance hydraulic oil. In addition to hydraulics, Hydra-Trace DE is perfect to use in circulating systems, non-EP gear sets, high-speed spindles, and certain general machinery lubrication.

HYDRA-TRACE DE SPECIFICATIONS

ISO Number	22	32	46	68	100	150	220
Approx. SAE No.	5	10	15	20	30	40	50
Properties:							
Gravity, API	30/32	30/32	31/32	29/31	28/30	28/30	27/29
Flash Point, °F. COC, Min.	300	400	400	400	415	430	440
Fire Point, °F. COC, Min.	320	430	440	440	450	470	480
Pour Point, °F. COC, Max.	-20	0	+5	+5	+10	+10	+10
Viscosity, SUS at 100°F.	105	170	210	330	595	755	1150
Viscosity, SUS at 210°F.	38/41	43/47	47	53/58	65/69	74/78	95/99
Viscosity Index, Min.	105	105	105	105	105	105	105
Oxidation Test (hrs.) ASTM D-943	10000+	10000+	10000+	10000+	8000+	8000+	8000+
Rust Test, ASTM D-665	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Foam Test, after initial Blowing/5 Min. Settling, ml							
Sequence I	25/0	25/0	25/0	25/0	25/0	30/0	30/0
Sequence II	25/0	25/0	25/0	25/0	25/0	30/0	30/0
Sequence III	25/0	25/0	25/0	25/0	25/0	30/0	30/0
Conradson Carbon Residue Wt. % Max.	0.20	0.08	0.09	0.10	0.20	0.30	0.40
Sulfated Ash, Wt. %	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Timken OK Load, Lbs. (Min.)	30	30	30	30	30	30	30
Zinc, Wt. % (by AA)	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Rust & Oxidation Inhibitors	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Demulsibility ASTM D-1401	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent

Texas Refinery Corp Hydra-Trace DE meets and/or exceeds the following specifications:

AIST 126; ASTM D6158 HL, HM, HV; ASTM D6158 HMHP, HVHP; Bosch Rexroth RDE 90235; Chinese Standard GB 11118.1 L-HL & L-HM High Pressure and General; Danieli 0.000.001 Type 10 & 11; DIN 51524; Danfoss (Eaton) Brochure 03-401-2010; Danfoss (Eaton) Lubricant Specification E-FDGN-TB002-E; Eaton Vickers I-286-S; Eaton Vickers M-2950-S; Fives Cincinnati P-68, P-69 & P-70; GM LS-2 Antiwear Hydraulic Oil; JCMAS HK P041; ISO 11158; Parker Denison HF-1, HF-2, HF-0; SAE MS1004; Swedish Standard SS 155434-2015; U.S Steel 126; ZF TE-ML-07H, ZF TE-ML-21M

Handling Information: For safe handling of the product, read the Safety Data Sheet (SDS).

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