

Product Description

D-A Circulating Oil is a premium quality circulating oil is available in ISO viscosity grades 220 - 680. It is designed to be environmentally friendly. D-A Circulating Oil is zinc and phenol free. The highest quality petroleum base oil is selected for its natural stability and for its compatibility with high performance components. Exceptional rust and oxidation resistance are results of the unique formulation of select base oil and additives. Anti-wear performance is achieved by the basic formulation which is of a non-corrosive nature.

D-A Circulating Oil supports the performance requirements of lubricants used in *Morgoil[®] Bearings. These high quality oils meet Morgoil Advanced Lubricant (Super Demulsibility) specification (Rev. 2.4 dated Feb. 29, 2007). *Morgoil[®] is a registered trademark of Morgan Co.

Product Features and Benefits

Resistance to oxidation and the formation of deposits
Fast separation from water protects bearings from water damage
Protection against rust and corrosion provides longer bearing life
Compatibility with seal material provides excellent seal life
Environmentally favorable (no zinc, phenol) - allows for use in environmentally sensitive areas

PRODUCT AT A GLANCE

- Environmentally friendly
- Rust and Oxidation Resistance
- Seal Material Compatible
- Fast Separation from Water



D-A Lubricant Company, Inc.

801 Edwards Drive, Lebanon, IN 46052 • TEL: 317.923.5321 • FAX: 765.482.3065 • EMAIL: dalube@dalube.com
www.dalube.com



Typical Applications

D-A Circulating Oil supports the performance requirements of lubricants used in *Morgoil[®] Bearings. These high quality oils meet Morgoil Advanced Lubricant (Super Demulsibility) specification (Rev. 2.4 dated Feb. 29, 2007). *Morgoil[®] is a registered trademark of Morgan Co.

Use generally in any lubricating oil circulation system that is well-engineered and protected from leakage or contamination which would require frequent oil replacement. Designed for lubrication of bearings, gears and ways.

Typical Properties

ISO Viscosity Grade	ASTM D2422	220	320	460	680
Specific Gravity	ASTM D1298	0.88	0.89	0.89	0.90
Density, Lbs/Gal		7.35	7.43	7.48	7.49
Viscosity	ASTM D445, D2161				
@ 100° C, cSt (212° F)		19.08	24.68	31.96	40.94
@ 40° C, cSt (104° F)		214	313	474	695
Viscosity Index	ASTM D2270	100	100	97	98
Flash Point,	ASTM D92, COC				
°F		509	518	554	580
°C		265	270	290	304
Pour Point,	ASTM D6749				
°F		3	7	14	9
°C		-16	-14	-10	-13
RPVOT	ASTM D2272	n/a	n/a	101 Minutes	110 Minutes
Copper Strip					
(3 hrs @ 100° C)	ASTM D130	1 - A	1 - A	1 - A	1 - A
Foam	ASTM D892				
Sequence I, II, III		0-0, 0-0, 0-0	0-0, 0-0, 0-0	0-0, 0-0, 0-0	0-0, 0-0, 0-0
Rust Test	ASTM D665				
Distilled Water		Pass - Clean	Pass - Clean	Pass - Clean	Pass - Clean
Synthetic Sea Water		Pass - Clean	Pass - Clean	Pass - Clean	Pass - Clean
Demulsibility	ASTM D2711				
@52° C using non-EP method		n/a	n/a	27.8 ml	26.0 ml
Dynamic Demulsibility		n/a	n/a	2.2%	2.9%
	Bulk	54161	57171	57181	57191

To Order D-A Products, Call 1-800-OIL-LUBE (1-800-645-5823) or Fax orders to 765-482-3065

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