



PRODUCT DATA SHEET



ANTI-WEAR LUBRICANT

Anti-Wear Lubricant, commonly known as Bel-Ray Anti-Wear Lube, is a high quality, general purpose lubricant for a broad range of applications including hydraulic and circulating systems, turbines, pumps, bearings, light to moderate duty enclosed gears and general machinery lubrication. **Anti-Wear Lubricant** is formulated for long service life while virtually eliminating wear and completely protecting the equipment from rust, oxidation and corrosion.

Applications

- ◆ General purpose oil for plant lubrication
- ◆ Hydraulic systems, turbines, compressors, pumps, circulating systems
- ◆ Bearings, spindles, machine tool ways, lightly loaded gearboxes and air line lubricators
- ◆ **Anti-Wear Lubricant** is suitable for use in equipment specifying oils meeting the following specifications:

HM - ASTM D6158 or ISO 11158	Cincinnati Milacron - P-68, P-69, P-70	Bosch (Racine) - Variable Volume Vane Pumps
US Steel 136, 127	Vickers - 1-286-S, M-2950-S	General Motors - LH-04-1, LH-06-1, LH-15-1
DIN 51 524, part 2 (HLP)	Denison - HF-0, HF-1, HF-2	
AFNOR 78-690, 48-691	Ford - M-6C32	Morgoil Lubricant Specification

Features and Benefits

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|--------------------------------|--|
| ◆ Rust and oxidation stability | Extended service life. |
| ◆ Anti-wear protection | Reduces friction and wear for extended component life. |
| ◆ High demulsibility | Excellent water separation. |
| ◆ USDA H2 rated | Acceptable in food plants where there is no possibility of food contact. |

General Description

Anti-Wear Lubricant is formulated with highly refined paraffinic oil. **Anti-Wear Lubricant** is formulated with a zinc-based anti-wear additive, rust, corrosion, foam and oxidation inhibitors. **Anti-Wear Lubricant** has exceptional demulsibility or water separation properties, an important characteristic of high quality hydraulic oils. **Anti-Wear Lubricant** is available in ten ISO Viscosity Grades Meeting the requirements of most applications.

Product No. 56000, 56010, 56020, 56030, 56040, 56050, 56060, 56070, 56080, 56090

ANTI-WEAR LUBRICANT

TYPICAL PROPERTIES

<u>Product No.</u>	<u>56000</u>	<u>56010</u>	<u>56020</u>	<u>56030</u>	<u>56040</u>
ISO Viscosity Grade	15	22	32	46	68
Formerly AGMA Number	--	--	0	1	2
Viscosity, ASTM D445					
@ 40°C, cSt	13.7	21.9	31.1	46.7	65.6
@ 100°C, cSt	3.00	4.34	5.31	6.70	8.30
Viscosity, ASTM D2161					
@ 100°F, SUS	76.9	115	160	242	340
@ 210°F, SUS	36.4	40.9	44.0	48.8	54.1
Viscosity Index, ASTM D2270	54	105	102	94	94
Pour Point, ASTM D97					
°C	-54	-34	-29	-26	-23
(°F)	(-65)	(-30)	(-20)	(-15)	(-10)
Rust Test, ASTM D665					
Procedure A & B	Pass	Pass	Pass	Pass	Pass
Demulsibility, ASTM D1401					
Oil/water/emulsion, ml/ml/ml	40/40/0	40/40/0	40/40/0	40/40/0	40/40/0
(time, minutes)	(15)	(15)	(15)	(15)	(15)
Flash Point, ASTM D92					
°C	165	194	204	213	232
(°F)	(329)	(381)	(400)	(415)	(450)
Specific Gravity					
ASTM D1298, 60/60°F	0.885	0.862	0.868	0.885	0.888
Color	Yellow	Yellow	Yellow	Yellow	Yellow

ANTI-WEAR LUBRICANT

TYPICAL PROPERTIES

<u>Product No.</u>	<u>56050</u>	<u>56060</u>	<u>56070</u>	<u>56080</u>	<u>56090</u>
ISO Viscosity Grade	100	150	220	320	460
Formerly AGMA Number	3	4	5	6	7
Viscosity, ASTM D445					
@ 40°C, cSt	97.7	154	218	322	465
@ 100°C, cSt	10.8	14.8	18.8	24.2	30.8
Viscosity, ASTM D2161					
@ 100°F, SUS	510	810	1153	1715	2492
@ 210°F, SUS	63.1	78.9	95.9	120	151
Viscosity Index, ASTM D2270	94	95	96	96	96
Pour Point, ASTM D97					
°C	-21	-21	-18	-10	-8
(°F)	(-5)	(-5)	(0)	(14)	(18)
Rust Test, ASTM D665					
Procedure A & B	Pass	Pass	Pass	Pass	Pass
Demulsibility, ASTM D1401					
Oil/water/emulsion, ml/ml/ml	40/40/0	40/40/0	40/40/0	40/40/0	40/40/0
(time, minutes)	(15)	(15)	(15)	(15)	(15)
Flash Point, ASTM D92					
°C	252	263	274	282	293
(°F)	(485)	(505)	(525)	(540)	(560)
Specific Gravity					
ASTM D1298, 60/60°F	0.890	0.890	0.892	0.895	0.895
Color	Yellow	Amber	Amber	Amber	Amber