

# R & O Oil



## Product Description

D-A R & O Oil is designed for all modern hydraulic power systems where a rust and oxidation (R & O) oil is recommended. This oil is formulated with a high level of R & O inhibitors for maximum protection against rust and oxidation in hydraulic pumps and motors. D-A R & O Oil also provides superior service in industrial gear applications requiring R & O inhibited lubricants.

## Product Features and Benefits

Provides wear control for steel, brass and bronze pump parts when operating at system pressures not requiring anti-wear additives, resulting in excellent pump protection and more cost efficient operation.

Can be used in hydraulic equipment as well as applications requiring an R & O oil for gear box and speed reducer lubrication giving service flexibility and minimized lubricant inventory.

Special rust inhibitors limit rusting of ferrous metals.

## Typical Applications

Supports the Performance Requirements of:

AGMA 9005-E02 (R&O)

Dennison HF-1, DIN 51524 Part 1

Recommended for Use where R & O Oils are permitted in:

Hydraulic Power Systems

Hydraulic Drills Hydraulic Pumps Air Compressors

Industrial Gear Drives

## Typical Properties

ISO Viscosity Grade	Test Method	32	46	68	100	150	220	320
Viscosity @ 100°C, cSt	ASTM D445	5.3	6.8	8.8	11.3	15.7	19.3	25
@ 40°C, cSt	ASTM D445	32	46	68	100	162.5	220	320
Viscosity Index	ASTM D2270	96	99	100	95	98	99	99
Pour Point, °F (°C)	ASTM D97	-35 (-38)	-30 (-34)	-13 (-25)	0 (-18)	-18 (-28)	0 (-18)	17 (-8)
Flash Point, °F (°C)	ASTM D92	405 (207)	425 (218)	420 (216)	460 (238)	500 (260)	465 (241)	490 (254)
API Gravity	ASTM D4052	31.7	31	30.3	29.5	28.3	27.8	27.0

### D-A Part Number:

Bulk	54711	54721	54731	54741	54751	54761	54771
Tote – 330 Gal	54713	N/A	54733	54743	54753	N/A	54773
Drum – 55 Gal	54712	54722	54732	54742	54752	54762	54772
Pail (Metal) – 35 lb	54719	54729	54739	54749	54759	54769	N/A
Pail (Plastic) – 35 lb	N/A	N/A	N/A	N/A	N/A	N/A	N/A