

Measuring the Benefit of Dry Oil

Effect of Moisture Content on Machine Life

Life Extension Factor (LEF)

A \ B	2x	3x	4x	5x	6x	7x	8x	9x	10x
	50,000	12,500	6,500	4,500	3,125	2,500	2,000	1,500	1,000
25,000	6,250	3,250	2,250	1,563	1,250	1,000	750	500	391
10,000	2,500	1,300	900	625	500	400	300	200	156
5,000	1,250	650	450	313	250	200	150	100	78
2,500	625	325	225	156	125	100	75	50	39
1,000	250	130	90	63	50	40	30	20	16
500	125	65	45	31	25	20	15	10	8
250	63	33	23	16	13	10	8	5	4
100	25	13	9	6	5	4	3	2	2

In the above example, reducing the water content of an oil from 500 ppm to 45 ppm would increase the machine life by 4 (400 percent).

Royal Purple industrial lubricants rapidly separate from water, allowing water to easily be drained from the bottom of oil reservoirs. In addition, Royal Purple's proprietary additive technologies ionically bond with all metal surfaces displacing harmful moisture.

1 Drop of water per liter of oil is approximately 200 ppm (0.02%)

1.0% Water = 10,000 ppm
 0.1% Water = 1,000 ppm
 0.01% Water = 100 ppm

Source Unknown