

OIL ANALYSIS REPORT

Sample Rating Trend



INGERSOLL RAND YRD-404

Reciprocating Compressor

TULCO LUBSOIL IND MP R&O 150 (--- GAL

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORI						
		Au	2023	Nov2023 Jan20	124	
Sample Number	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO60000481	TO60000479	TO60000476
Sample Date		Client Info		26 Jan 2024	07 Nov 2023	09 Aug 2023
Machine Age	hrs	Client Info		102322	0	92102
Oil Age	hrs	Client Info		102322	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	1
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	2	0
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	14	19	13
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	0	20	83	28
Phosphorus	ppm	ASTM D5185m	0	21	32	33
Zinc	ppm	ASTM D5185m	0	6	20	15
Sulfur	ppm	ASTM D5185m	2400	2177	2314	2891
	_					
CONTAMINANTS	P	method				history2
CONTAMINANTS Silicon		method ASTM D5185m	limit/base	current 10	history1 11	history2
	ppm					
Silicon	ppm	ASTM D5185m		10	11	4 5
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>25	10	11	▲ 45 0
Silicon Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	10 0 0	11 0 <1	45 0 0
Silicon Sodium Potassium Water	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>25 >20 >0.1	10 0 0 0.003	11 0 <1 0.006	45 0 0 0.002
Silicon Sodium Potassium Water ppm Water	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>25 >20 >0.1 >1000	10 0 0 0.003 34	11 0 <1 0.006 67	45 0 0 0.002 18.5
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	>25 >20 >0.1 >1000 limit/base	10 0 0 0.003 34 current	11 0 <1 0.006 67 history1	45 0 0 0.002 18.5 history2
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>25 >20 >0.1 >1000 limit/base >10000	10 0 0 0.003 34 current 3663	11 0 <1 0.006 67 history1	▲ 45 0 0 0.002 18.5 history2 ▲ 21740
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>25 >20 >0.1 >1000 limit/base >10000 >2500	10 0 0 0.003 34 current 3663 261	11 0 <1 0.006 67 history1 1475 209	▲ 45 0 0 0.002 18.5 history2 ▲ 21740 598
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>25 >20 >0.1 >1000 limit/base >10000 >2500 >320	10 0 0 0.003 34 current 3663 261	11 0 <1 0.006 67 history1 1475 209	▲ 45 0 0 0.002 18.5 history2 ▲ 21740 598 9
Silicon Sodium Potassium Water ppm Water FLUID GLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>25 >20 >0.1 >1000 limit/base >10000 >2500 >320 >80	10 0 0 0.003 34 current 3663 261 12	11 0 <1 0.006 67 history1 1475 209 12	▲ 45 0 0 0.002 18.5 history2 ▲ 21740 598 9 1
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>25 >20 >0.1 >1000 limit/base >10000 >2500 >320 >80 >20	10 0 0 0.003 34 current 3663 261 12 5	11 0 <1 0.006 67 history1 1475 209 12 2	▲ 45 0 0 0.002 18.5 history2 ▲ 21740 598 9 1 0
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>25 >20 >0.1 >1000 limit/base >10000 >2500 >320 >80 >20 >4	10 0 0 0.003 34 current 3663 261 12 5 0	11 0 <1 0.006 67 history1 1475 209 12 2 0	▲ 45 0 0 0.002 18.5 history2 ▲ 21740 598 9 1 0 0



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