

PROBLEM SUMMARY

Sample Rating Trend

ISO

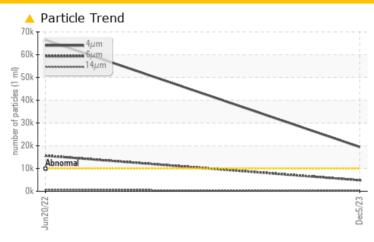
C-1163

Component

Refrigeration Compressor

TULCO LUBSOIL SYN RL WI 100 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status		A	TTENTION	ABNORMAL						
Particles >4µm	ASTM D7647	>10000	19448	<u>△</u> 66492						
Particles >6µm	ASTM D7647	>2500	4828	<u>▲</u> 15638						
Oil Cleanliness	ISO 4406 (c)	>20/18/15	21/19/15	A 23/21/16						

Customer Id: ETCKEN Sample No.: TO90002476 Lab Number: 06026524 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

20 Jun 2022 Diag: Don Baldridge

ISO



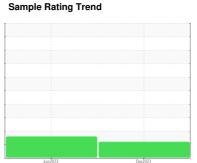
We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

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Machine Id C-1163

Component

Refrigeration Compressor

TULCO LUBSOIL SYN RL WI 100 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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

			Jun 2022	Dec2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90002476	TO90001778	
Sample Date		Client Info		05 Dec 2023	20 Jun 2022	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ATTENTION	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	5	3	
Chromium	ppm	ASTM D5185m	>2	0	0	
Nickel	ppm	ASTM D5185m		<1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>3	<1	<1	
Lead	ppm	ASTM D5185m	>2	0	0	
Copper	ppm	ASTM D5185m	>8	0	<1	
Tin	ppm	ASTM D5185m	>4	1	1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	3	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m		0	0	
Calcium	ppm	ASTM D5185m		2	0	
Phosphorus	ppm	ASTM D5185m	1500	462	677	
Zinc	ppm	ASTM D5185m		57	22	
Sulfur	ppm	ASTM D5185m		0	0	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	2	
Sodium	ppm	ASTM D5185m		3	3	
Potassium	ppm	ASTM D5185m	>20	1	0	
Water	%	ASTM D6304	>2.26	0.118	0.165	
ppm Water	ppm	ASTM D6304	>22600	1183	1655.2	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<u> </u>	<u></u> 66492	
Particles >6µm		ASTM D7647	>2500	4828	<u>▲</u> 15638	
Particles >14µm		ASTM D7647	>320	243	△ 631	
Particles >21µm		ASTM D7647	>80	46	76	
Particles >38µm		ASTM D7647	>20	1	2	
Particles >71µm		ASTM D7647	>4	0	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>^</u> 21/19/15	<u>△</u> 23/21/16	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.04	0.066	0.057	



OIL ANALYSIS REPORT

