

PROBLEM SUMMARY



Not GIVEN TO90002270

Refrigeration Compressor Fluid ISO 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				MARGINAL							
Water	%	ASTM D6304	>0.01	A 0.021							
ppm Water	ppm	ASTM D6304	>100	A 212.8							

Customer Id: UCTULMID Sample No.: TO90002270 Lab Number: 05931605 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

WATER

NOT GIVEN TO90002270

Refrigeration Compressor Fluid ISO 100 (--- GAL)

DIAGNOSIS

A 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 trace of moisture present 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 INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90002270		
Sample Date		Client Info		21 Aug 2023		
Machine Age	yrs	Client Info		0		
Oil Age	yrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				MARGINAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	4		
Chromium	ppm	ASTM D5185m	>2	0		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>3	0		
Lead	ppm	ASTM D5185m	>2	0		
Copper	ppm	ASTM D5185m	>8	<1		
Tin	ppm	ASTM D5185m	>4	1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		3		
Phosphorus	ppm	ASTM D5185m		246		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		11		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	1		
Water	%	ASTM D6304	>0.01	<u> </u>		
ppm Water	ppm	ASTM D6304	>100	A 212.8		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1612		
Particles >6µm		ASTM D7647	>2500	344		
Particles >14µm		ASTM D7647	>320	24		
Particles >21µm		ASTM D7647	>80	6		
Particles >38µm		ASTM D7647	>20	0		
Particles >71µm		ASTM D7647	>4	0		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/16/12		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974		0.015		



OIL ANALYSIS REPORT



method limit/base history1 history2 current NONE *Visual NONE scalar *Visual NONE NONE scalar scalar *Visua NONE NONE scalar *Visual NONE NONE *Visual NONE NONE scalar NONE scalar *Visual NONE NORML *Visual NORML scalar *Visual NORML scalar NORML *Visual scalar >0.01 NEG scalar *Visual NEG FLUID PROPERTIES method limit/base curren history history cSt ASTM D445 100 104 cSt ASTM D445 11.5 18.5 Scale ASTM D2270 102 198 SAMPLE IMAGES method limit/base history1 history2 current no image no image no image no image Particle Count 491.52 122.88 30.72 7 68 20 2 Aug21/23 1406 (per 1 1.920 1999 Cle articles Non-ferrous Metals 480 120 31 Viscosity @ 40°C Acid Number (B/0.02 Шü 0.01 0.01 0.00 PC Aug21/23 Aug21 TULCO OILS INC (009-MIDLAND DIVISION) : WearCheck USA - 501 Madison Ave., Cary, NC 27513

2415 S. NICKLAS AVENUE OKLAHOMA CITY, OK US 73128 Contact: Service Manager

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Received

Diagnosed

: 22 Aug 2023

: 24 Aug 2023

Diagnostician : Angela Borella

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