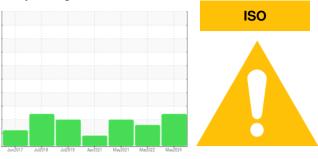


OIL ANALYSIS REPORT

Sample Rating Trend

SAMPLE INFORMATION method limit/base



current

history1

history2

SC-5-6 Component Refrigeration Compressor Fluid TULCO LUBSOIL SYN REFRIGERATION 68 (--- GAL)

DIAGNOSIS

Machine Id

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

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

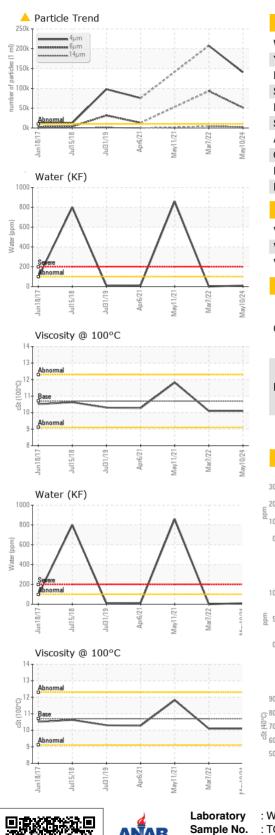
SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO40000364	TO4000081	TO4003325
Sample Date		Client Info		10 May 2024	07 Mar 2022	11 May 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	ourroat	biotomut	history
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	2	21	16
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>2	0	0	<1
Copper	ppm	ASTM D5185m	>8	0	<1	0
Tin	ppm	ASTM D5185m	>4	0	0	0
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m	10	0	11	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	725	0	471	244
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	0
Sodium	ppm	ASTM D5185m		1	0	<1
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.01	0.001	0.001	▲ 0.086
ppm Water	ppm	ASTM D6304	>100	11	0.5	▲ 860
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	140597	2 07613	
Particles >6µm		ASTM D7647	>2500	<u> </u>	4 93131	
Particles >14µm		ASTM D7647	>320	A 3041	4 504	
Particles >21µm		ASTM D7647	>80	<u> </u>	▲ 728	
Particles >38µm		ASTM D7647	>20	4	6	
Particles >71µm		ASTM D7647	>4	0	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	4/23/19	2 5/24/19	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN) 7:06:01) Rev: 1	mg KOH/g	ASTM D974	0.06	0.012	0.014 NALD KETTLE	0.015

Report Id: FREMORTO [WUSCAR] 06182932 (Generated: 05/21/2024 17:06:01) Rev: 1

Contact/Location: RONALD KETTLES - FREMORTO



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	🔺 MODER	LIGHT	🔺 MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
FLUID PROPERT Visc @ 40°C	T <mark>IES</mark> cSt	method ASTM D445	limit/base 67.5	current 64.6	history1 64.9	history2 79.49
Visc @ 40°C	cSt	ASTM D445	67.5	64.6	64.9	79.49
Visc @ 40°C Visc @ 100°C	cSt cSt Scale	ASTM D445 ASTM D445	67.5 10.7	64.6 10.1	64.9 10.1	79.49 11.82
Visc @ 40°C Visc @ 100°C Viscosity Index (VI)	cSt cSt Scale	ASTM D445 ASTM D445 ASTM D2270	67.5 10.7 147	64.6 10.1 141	64.9 10.1 141	79.49 11.82 142

GRAPHS Ferrous Alloys Particle Count 491.52 20 122,88 nicke 30.72 20 8 Mav10/24 Jul15/18 May11/21 Var7/77 Jul31/1 4406: (per 1 1.920 18 :1999 Cle cles Non-ferrous Metals 480 120 12 8 31 May11/21 Apr6/21 Var7/77 /av10/24 ul15/1 0 64 140 214 384 Viscosity @ 40°C Acid Number (D/H0.08 90 (j. 80 (j. 01) B 0.06 b 0.04 Ē 0.02 60 Acid N Acid N 50 May10/24. Jun18/17 Jul31/19 Apr6/21. May10/24 May11/21 Mar7/22 Jun 18/17 Jul31/19 Apr6/21 May11/21 Mar7/22 ul15/18 : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **FRESH EXPRESS - MORROW** Received : TO40000364 : 17 May 2024 1361 SOUTHERN ROAD Lab Number : 06182932 Tested : 20 May 2024 MORROW, GA Unique Number : 11034258 Diagnosed : 21 May 2024 - Jonathan Hester US 30260 Test Package : IND 2 (Additional Tests: KV100, PrtCount, VI) Contact: RONALD KETTLES

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

Certificate 12367

Contact/Location: RONALD KETTLES - FREMORTO

F:

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