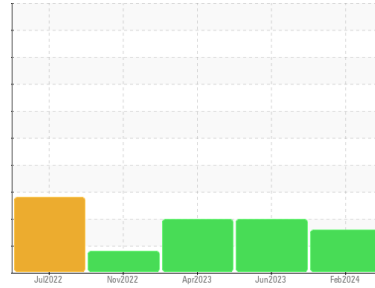


Area
COMPRESSOR STATIONS/RED HILLS WEST AREA
 Machine Id
MILKY WAY (S/N 5629X3113)

Component
Compressor
 Fluid
TULCO LUBSOIL LPG WS 150 (--- GAL)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. 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.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		TO60002080	TO70000268	TO60000827
Sample Date	Client Info		06 Feb 2024	05 Jun 2023	14 Apr 2023
Machine Age	hrs	Client Info	31986	26131	0
Oil Age	hrs	Client Info	26131	26131	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	26	3	12
Chromium	ppm	ASTM D5185m >10	<1	0	0
Nickel	ppm	ASTM D5185m	0	0	<1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	2	<1	0
Lead	ppm	ASTM D5185m >25	0	0	0
Copper	ppm	ASTM D5185m >50	<1	0	<1
Tin	ppm	ASTM D5185m >15	0	<1	<1
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	0	<1
Barium	ppm	ASTM D5185m 0	8	0	0
Molybdenum	ppm	ASTM D5185m 0	0	0	0
Manganese	ppm	ASTM D5185m	0	0	<1
Magnesium	ppm	ASTM D5185m 0	<1	2	3
Calcium	ppm	ASTM D5185m 0	<1	<1	6
Phosphorus	ppm	ASTM D5185m 0	55	14	19
Zinc	ppm	ASTM D5185m 0	<1	0	2
Sulfur	ppm	ASTM D5185m 0	959	1035	1364

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	0	0	2
Sodium	ppm	ASTM D5185m	23	10	13
Potassium	ppm	ASTM D5185m >20	2	3	2
Water	%	ASTM D6304 >2.26	0.379	0.817	0.413
ppm Water	ppm	ASTM D6304 >22600	3790	8179.8	4135.3

FLUID CLEANLINESS

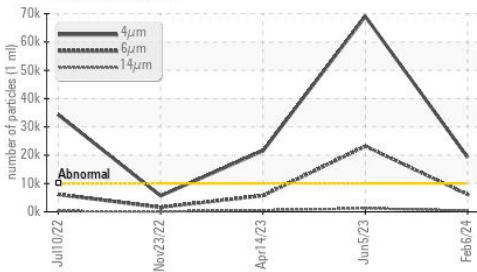
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 19259	▲ 69016	▲ 21532
Particles >6µm	ASTM D7647	>1300	▲ 6118	▲ 23195	▲ 5727
Particles >14µm	ASTM D7647	>320	▲ 396	▲ 1221	▲ 557
Particles >21µm	ASTM D7647	>80	56	▲ 198	▲ 181
Particles >38µm	ASTM D7647	>20	1	2	7
Particles >71µm	ASTM D7647	>4	0	0	0
Oil Cleanliness	ISO 4406 (c)	>20/17/15	▲ 21/20/16	▲ 23/22/17	▲ 22/20/16

FLUID DEGRADATION

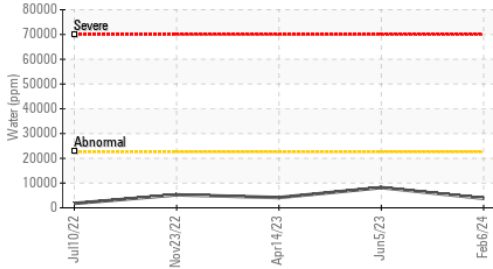
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.81	0.59	0.70

OIL ANALYSIS REPORT

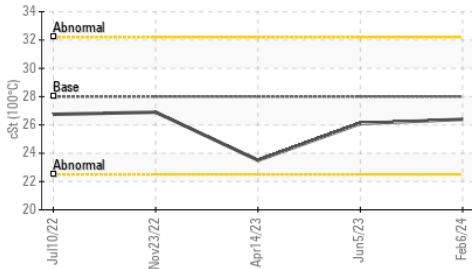
▲ Particle Trend



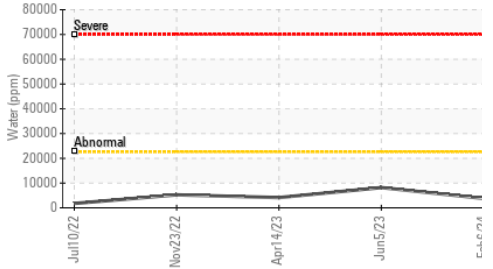
Water (KF)



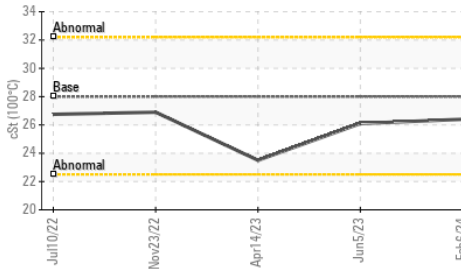
Viscosity @ 100°C



Water (KF)



Viscosity @ 100°C

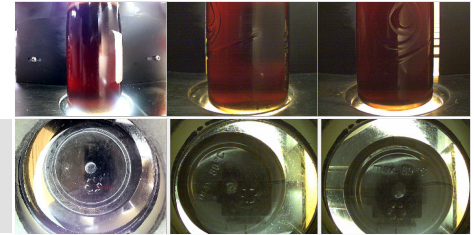


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2.26	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	151	147	129
Visc @ 100°C	cSt	ASTM D445	28	26.1	23.5
Viscosity Index (VI)	Scale	ASTM D2270	224	214	214

SAMPLE IMAGES	method	limit/base	current	history1	history2
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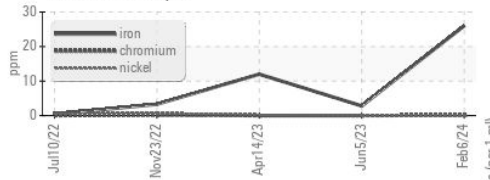
Color



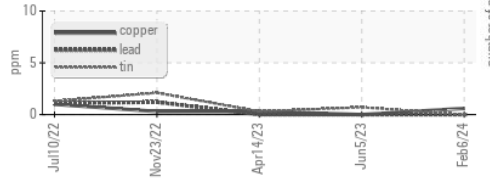
Bottom

GRAPHS

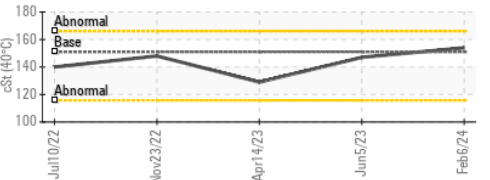
Ferrous Alloys



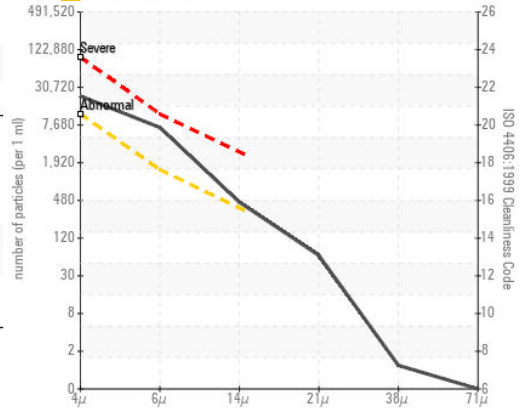
Non-ferrous Metals



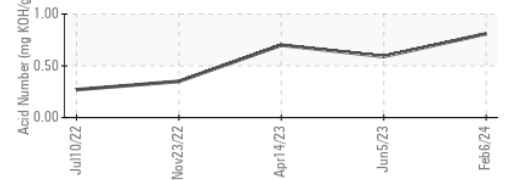
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002080 **Received** : 26 Feb 2024
Lab Number : 06100945 **Tested** : 27 Feb 2024
Unique Number : 10899175 **Diagnosed** : 28 Feb 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

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)

MIDLAND - EOG RESOURCES INC.
 5509 CHAMPIONS DRIVE
 MIDLAND, TX
 US 79706
 Contact: HERMAN GARZA
 herman_garza@egoresources.com
 T: (432)686-3600
 F: