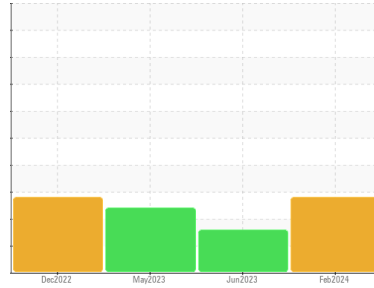


OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
COMPRESSOR STATIONS/RED HILLS EAST AREA
Machine Id
ALADDIN (S/N 5629X3169)

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

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. 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 acceptable for the time in service.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		TO60002063	TO60000784	TO60000814
Sample Date	Client Info		02 Feb 2024	07 Jun 2023	04 May 2023
Machine Age	hrs	Client Info	36752	31712	30968
Oil Age	hrs	Client Info	31712	31712	30968
Oil Changed	Client Info		Not Chngd	N/A	Not Chngd
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	46	▲ 68	▲ 69
Chromium	ppm	ASTM D5185m >10	<1	0	<1
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	<1
Lead	ppm	ASTM D5185m >25	0	0	0
Copper	ppm	ASTM D5185m >50	0	0	<1
Tin	ppm	ASTM D5185m >15	2	4	4
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	<1

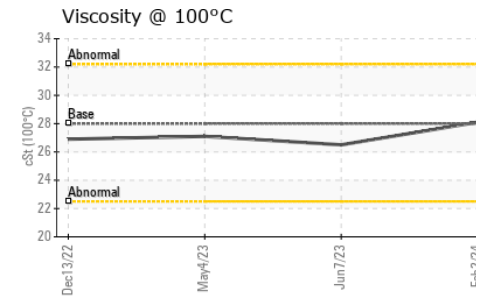
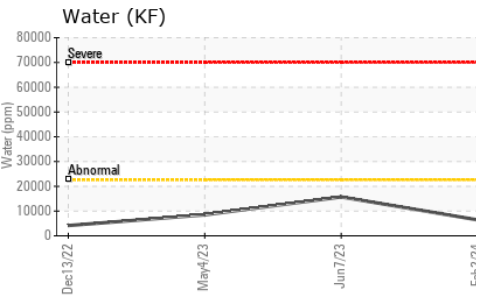
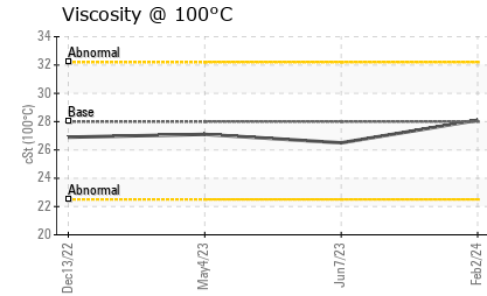
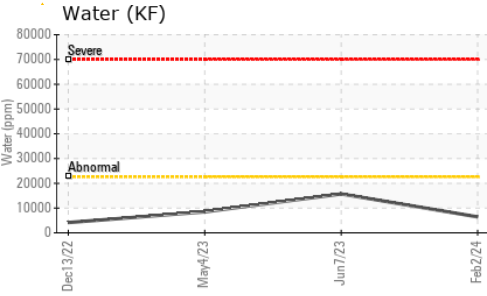
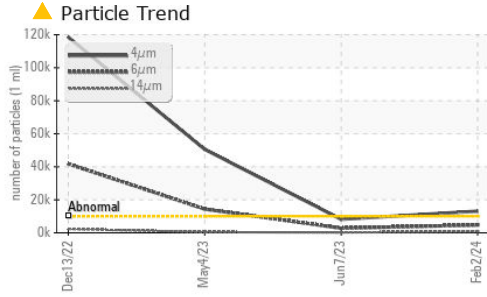
ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	4	0	0
Barium	ppm	ASTM D5185m 0	9	0	0
Molybdenum	ppm	ASTM D5185m 0	0	0	0
Manganese	ppm	ASTM D5185m	0	1	1
Magnesium	ppm	ASTM D5185m 0	2	4	2
Calcium	ppm	ASTM D5185m 0	7	10	10
Phosphorus	ppm	ASTM D5185m 0	67	97	114
Zinc	ppm	ASTM D5185m 0	1	0	6
Sulfur	ppm	ASTM D5185m 0	1145	857	697

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	0	0	<1
Sodium	ppm	ASTM D5185m	23	20	23
Potassium	ppm	ASTM D5185m >20	3	5	2
Water	%	ASTM D6304 >2.26	0.644	1.571	0.848
ppm Water	ppm	ASTM D6304 >22600	6440	15713.2	8480

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 13122	8192	▲ 50542
Particles >6µm	ASTM D7647	>1300	▲ 4725	▲ 2813	▲ 14377
Particles >14µm	ASTM D7647	>320	▲ 741	196	▲ 405
Particles >21µm	ASTM D7647	>80	▲ 344	30	46
Particles >38µm	ASTM D7647	>20	▲ 53	0	0
Particles >71µm	ASTM D7647	>4	▲ 5	0	0
Oil Cleanliness	ISO 4406 (c)	>20/17/15	▲ 21/19/17	▲ 20/19/15	▲ 23/21/16

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.50	0.48	0.52

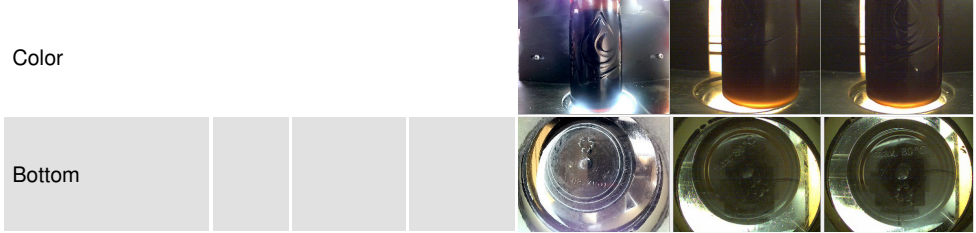
OIL ANALYSIS REPORT



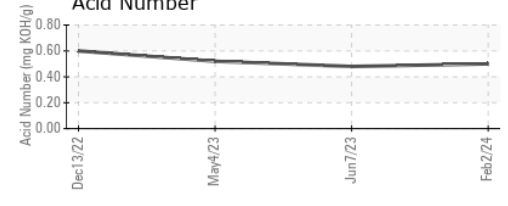
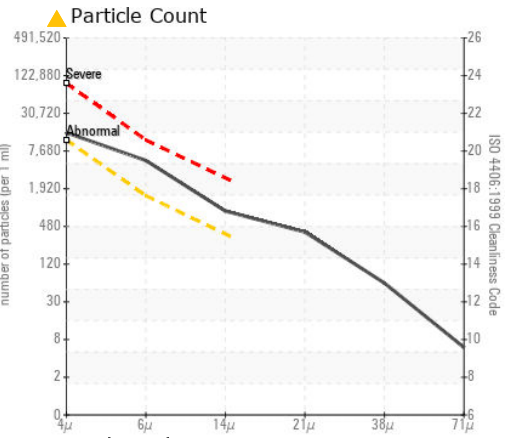
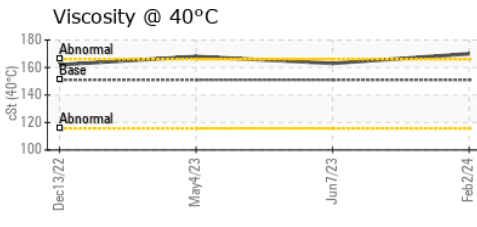
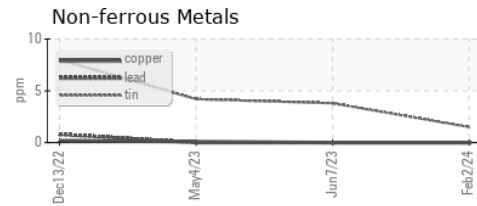
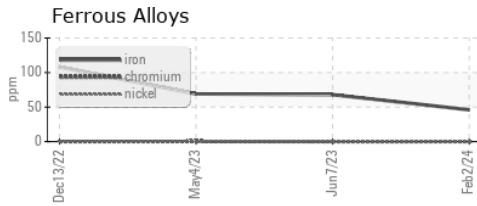
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	170	163
Visc @ 100°C	cSt	ASTM D445	28	28.1	26.5
Viscosity Index (VI)	Scale	ASTM D2270	224	204	199

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002063 **Received** : 26 Feb 2024
Lab Number : 06100951 **Tested** : 27 Feb 2024
Unique Number : 10899181 **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: