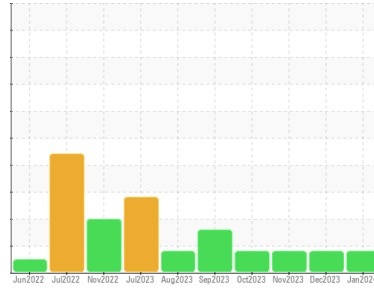


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
JAL NM
Machine Id
MRC-205
Component
Compressor
Fluid
TULCO LUBSOIL GEO XL LOW ASH 40 (--- GAL)

DIAGNOSIS

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

▲ Wear
The copper level is abnormal. All other component wear rates are normal.

Contamination
There is no indication of any contamination 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 INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		TO60002010	TO60001904	TO60001636
Sample Date	Client Info		11 Jan 2024	01 Dec 2023	02 Nov 2023
Machine Age	hrs	Client Info	22140	21172	20477
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	current	history1	history2
Iron	ppm	ASTM D5185m >50	2	0	<1
Chromium	ppm	ASTM D5185m >10	<1	0	0
Nickel	ppm	ASTM D5185m	0	0	0
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	6	4	8
Copper	ppm	ASTM D5185m >50	▲ 75	▲ 61	▲ 64
Tin	ppm	ASTM D5185m >15	3	2	3
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

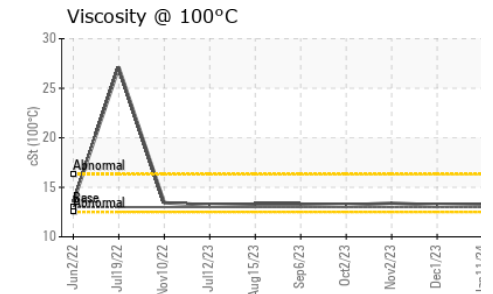
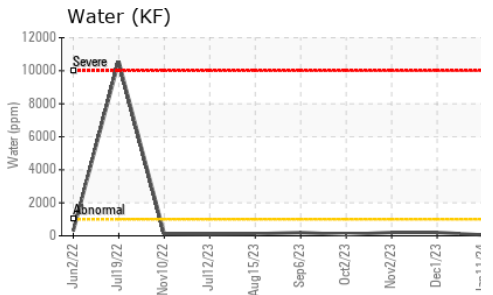
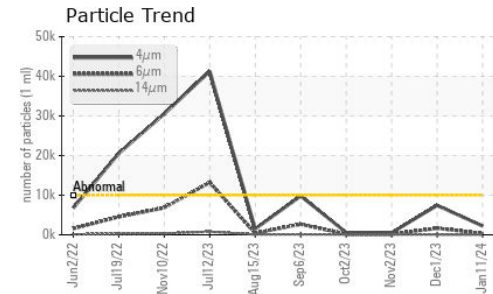
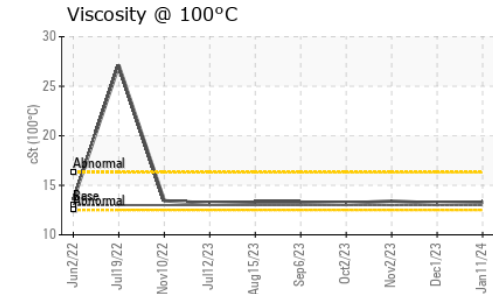
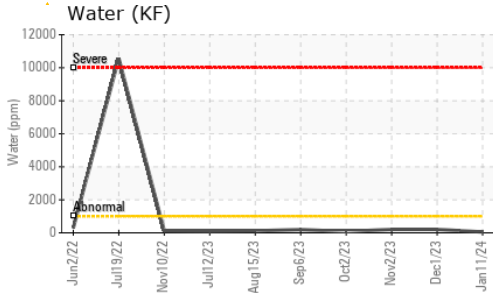
ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 100	76	65	67
Barium	ppm	ASTM D5185m	3	0	0
Molybdenum	ppm	ASTM D5185m 1	2	<1	2
Manganese	ppm	ASTM D5185m	0	<1	<1
Magnesium	ppm	ASTM D5185m 10	8	9	9
Calcium	ppm	ASTM D5185m 1150	1215	1068	1299
Phosphorus	ppm	ASTM D5185m 290	311	247	313
Zinc	ppm	ASTM D5185m 272	316	284	375
Sulfur	ppm	ASTM D5185m 1900	2003	1573	1973

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<1	<1	2
Sodium	ppm	ASTM D5185m	0	5	3
Potassium	ppm	ASTM D5185m >20	2	0	<1
Water	%	ASTM D6304 >0.1	0.005	0.020	0.020
ppm Water	ppm	ASTM D6304 >1000	51	208	208.8

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	2219	7425	530
Particles >6µm	ASTM D7647	>2500	344	1642	162
Particles >14µm	ASTM D7647	>320	7	59	9
Particles >21µm	ASTM D7647	>80	2	10	3
Particles >38µm	ASTM D7647	>20	0	1	1
Particles >71µm	ASTM D7647	>4	0	1	1
Oil Cleanliness	ISO 4406 (c)	>20/18/15	18/16/10	20/18/13	16/15/10

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.643	0.10	0.15

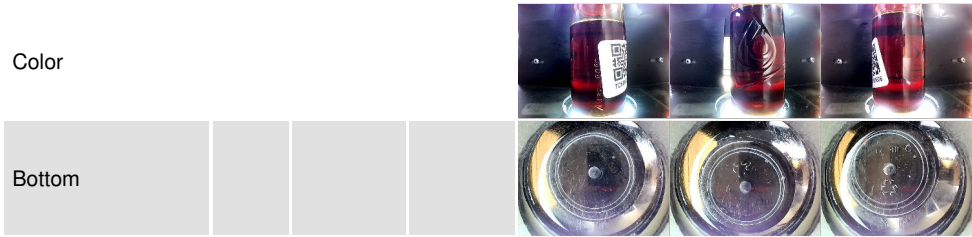
OIL ANALYSIS REPORT



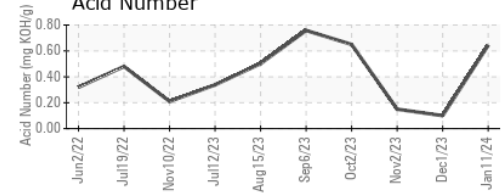
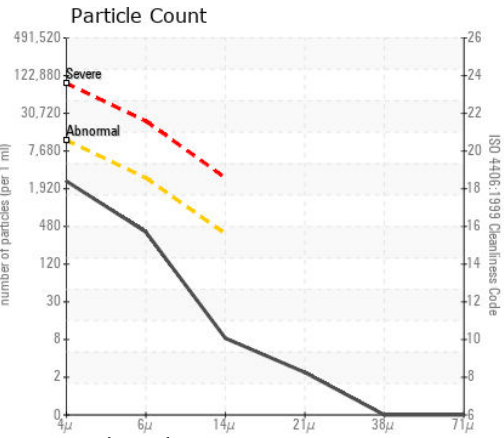
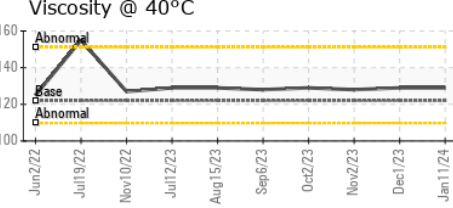
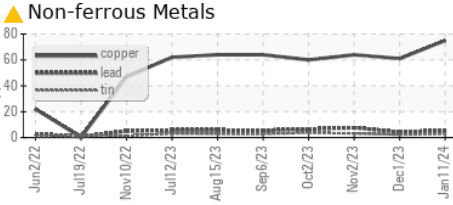
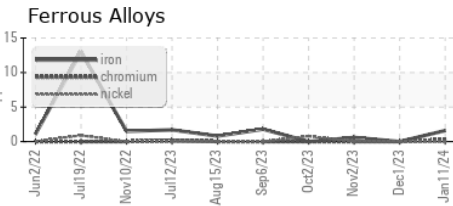
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	122	129	128
Visc @ 100°C	cSt	ASTM D445	13	13.3	13.4
Viscosity Index (VI)	Scale	ASTM D2270	103	97	99

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002010 **Received** : 17 Jan 2024
Lab Number : 06063644 **Tested** : 19 Jan 2024
Unique Number : 10835026 **Diagnosed** : 19 Jan 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

MIDLAND - EOG RESOURCES INC.
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 MIDLAND, TX
 US 79706
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 herman_garza@egoresources.com
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 F:

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)