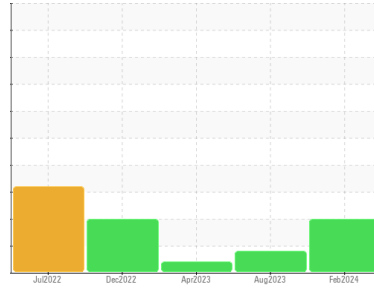


Area
COMPRESSOR STATIONS/CONAN AREA
 Machine Id
BARBARIAN (S/N 5329x4633)

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	TO60002040	TO60001225	TO60000796
Sample Date	Client Info	25 Feb 2024	28 Aug 2023	25 Apr 2023
Machine Age	hrs	0	0	55254
Oil Age	hrs	0	0	55254
Oil Changed	Client Info	N/A	N/A	Not Changd
Sample Status		ABNORMAL	ATTENTION	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >50	1	3	<1
Chromium ppm	ASTM D5185m >10	<1	<1	0
Nickel ppm	ASTM D5185m	0	<1	<1
Titanium ppm	ASTM D5185m	0	0	0
Silver ppm	ASTM D5185m	0	0	0
Aluminum ppm	ASTM D5185m >25	2	4	0
Lead ppm	ASTM D5185m >25	0	<1	0
Copper ppm	ASTM D5185m >50	0	<1	0
Tin ppm	ASTM D5185m >15	0	2	<1
Vanadium ppm	ASTM D5185m	0	0	0
Cadmium ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 0	0	3	0
Barium ppm	ASTM D5185m 0	8	0	0
Molybdenum ppm	ASTM D5185m 0	0	0	0
Manganese ppm	ASTM D5185m	0	<1	0
Magnesium ppm	ASTM D5185m 0	<1	3	0
Calcium ppm	ASTM D5185m 0	<1	0	<1
Phosphorus ppm	ASTM D5185m 0	28	13	3
Zinc ppm	ASTM D5185m 0	0	0	<1
Sulfur ppm	ASTM D5185m 0	207	976	49

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >25	<1	2	<1
Sodium ppm	ASTM D5185m	7	0	<1
Potassium ppm	ASTM D5185m >20	2	2	<1
Water %	ASTM D6304 >2.26	0.234	0.224	0.236
ppm Water	ASTM D6304 >22600	2340	2247.8	2360

FLUID CLEANLINESS

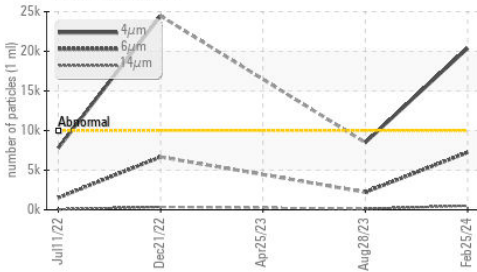
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	▲ 20386	8487	---
Particles >6µm	ASTM D7647 >1300	▲ 7249	● 2231	---
Particles >14µm	ASTM D7647 >320	▲ 513	121	---
Particles >21µm	ASTM D7647 >80	▲ 89	30	---
Particles >38µm	ASTM D7647 >20	1	1	---
Particles >71µm	ASTM D7647 >4	0	0	---
Oil Cleanliness	ISO 4406 (c) >20/17/15	▲ 22/20/16	● 20/18/14	---

FLUID DEGRADATION

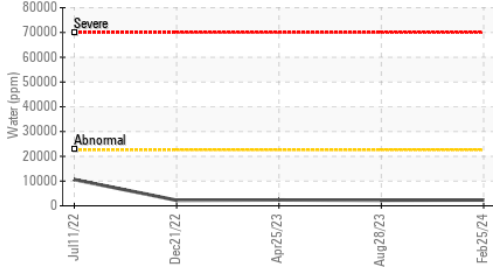
method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	0.07	0.08	0.08

OIL ANALYSIS REPORT

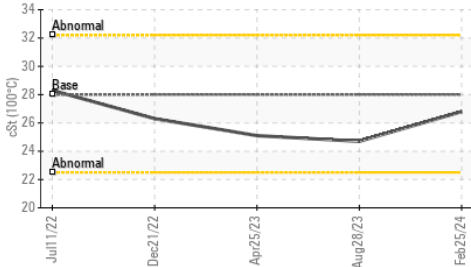
Particle Trend



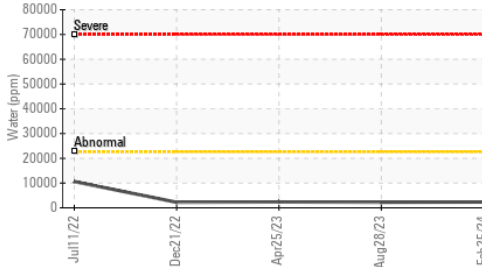
Water (KF)



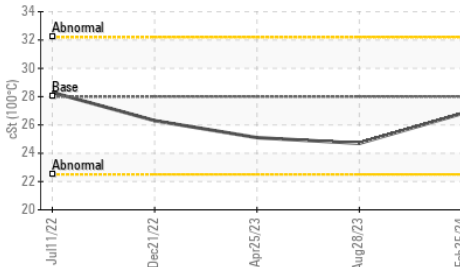
Viscosity @ 100°C



Water (KF)



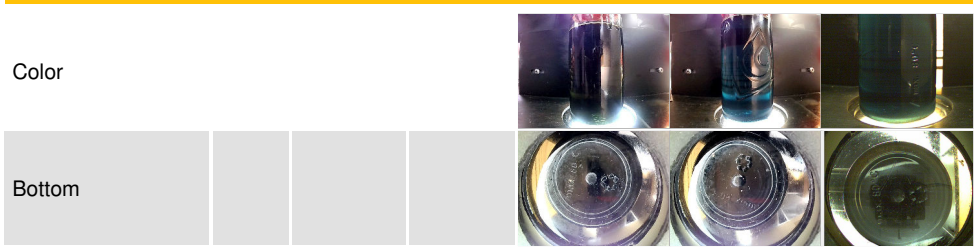
Viscosity @ 100°C



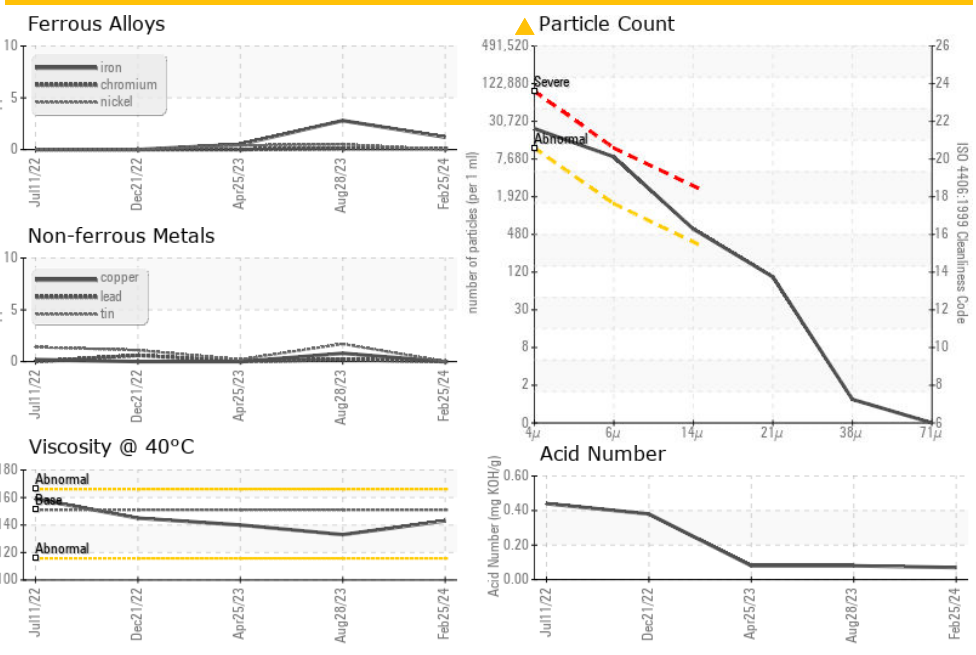
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	133	140
Visc @ 100°C	cSt	ASTM D445	28	24.7	25.1
Viscosity Index (VI)	Scale	ASTM D2270	224	220	214

SAMPLE IMAGES



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002040 **Received** : 26 Feb 2024
Lab Number : 06100935 **Tested** : 27 Feb 2024
Unique Number : 10899165 **Diagnosed** : 28 Feb 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF , KV100, PrtCount, VI)

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