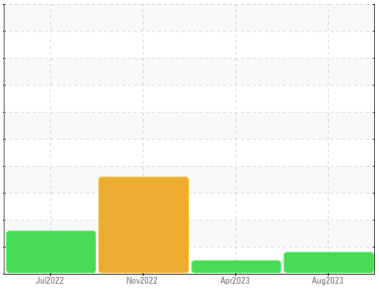
PROBLEM SUMMARY

Sample Rating Trend

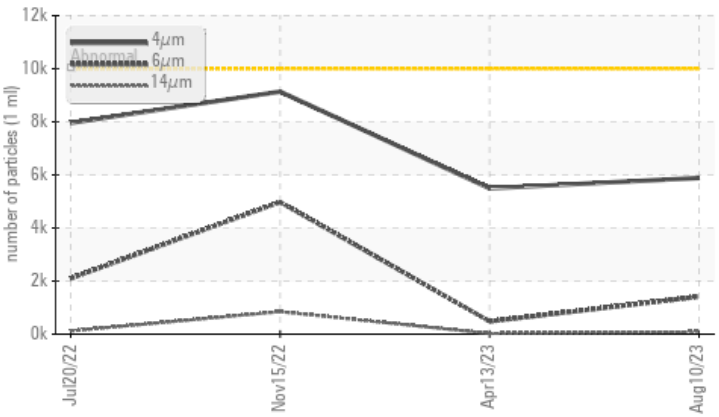


ISO

Area
RED HILLS WEST
Machine Id
GOLDEN BEAR (S/N LE11193)
Component
Compressor
Fluid
TULCO LUBSOIL LPG WS 150 (--- GAL)

COMPONENT CONDITION SUMMARY

Particle Trend



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	NORMAL	ABNORMAL
Particles >6µm		ASTM D7647	>1300	▲ **1413**	480	▲ 4977
Oil Cleanliness		ISO 4406 (c)	>20/17/15	▲ **20/18/14**	20/16/12	▲ 20/19/17

Customer Id: EOGMID
Sample No.: TO60001212
Lab Number: 05936650
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

13 Apr 2023 Diag: Wes Davis

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

---

15 Nov 2022 Diag: Jonathan Hester

WATER

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. There is a moderate concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

---

20 Jul 2022 Diag: Jonathan Hester

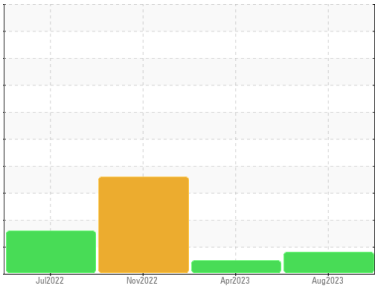
WATER

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
RED HILLS WEST
Machine Id
GOLDEN BEAR (S/N LE11193)
Component
Compressor
Fluid
TULCO LUBSOIL LPG WS 150 (--- GAL)

DIAGNOSIS

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

Wear
All component wear rates are normal.

Contamination
There is a moderate amount of silt (particulates < 14 microns in size) 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		**TO60001212**	TO60000808	TO70000186
Sample Date		Client Info		**10 Aug 2023**	13 Apr 2023	15 Nov 2022
Machine Age	hrs	Client Info		**10205**	8463	4918
Oil Age	hrs	Client Info		**1800**	4198	0
Oil Changed		Client Info		**Not Changd**	N/A	N/A
Sample Status				**ATTENTION**	NORMAL	ABNORMAL

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

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	<1	<1
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**0**	<1	<1
Manganese	ppm	ASTM D5185m		**<1**	<1	0
Magnesium	ppm	ASTM D5185m	0	**1**	<1	3
Calcium	ppm	ASTM D5185m	0	**0**	2	0
Phosphorus	ppm	ASTM D5185m	0	**7**	3	26
Zinc	ppm	ASTM D5185m	0	**0**	0	2
Sulfur	ppm	ASTM D5185m	0	**295**	45	0

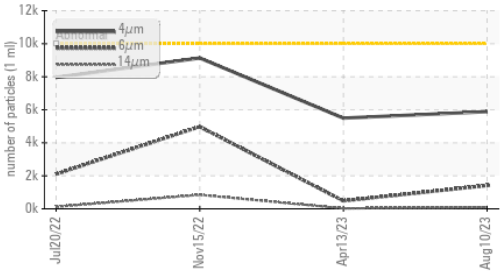
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**<1**	2	<1
Sodium	ppm	ASTM D5185m		**3**	27	0
Potassium	ppm	ASTM D5185m	>20	**2**	6	4
Water	%	ASTM D6304	>2.26	**0.626**	0.365	▲ 0.418
ppm Water	ppm	ASTM D6304	>22600	**6265.3**	3650	▲ 4180

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**5884**	5493	9137
Particles >6µm		ASTM D7647	>1300	▲ **1413**	480	▲ 4977
Particles >14µm		ASTM D7647	>320	**89**	25	▲ 847
Particles >21µm		ASTM D7647	>80	**14**	6	▲ 285
Particles >38µm		ASTM D7647	>20	**1**	1	▲ 44
Particles >71µm		ASTM D7647	>4	**0**	0	4
Oil Cleanliness		ISO 4406 (c)	>20/17/15	▲ **20/18/14**	20/16/12	▲ 20/19/17

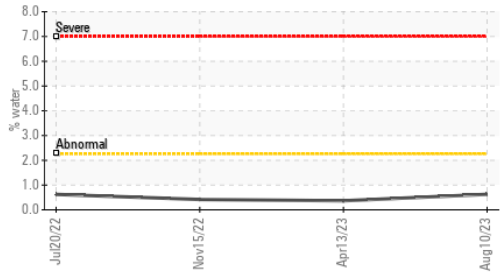
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.18**	0.16	0.06

OIL ANALYSIS REPORT

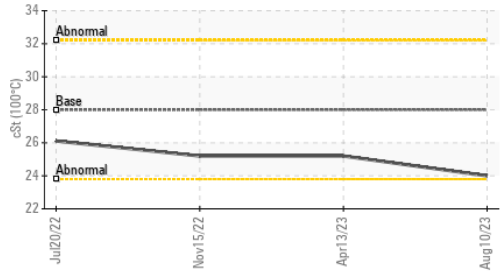
Particle Trend



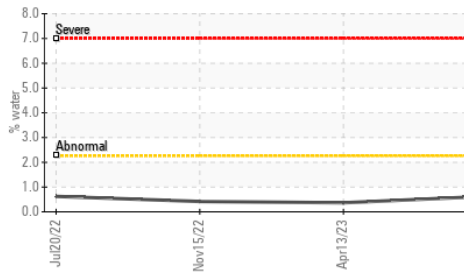
Water



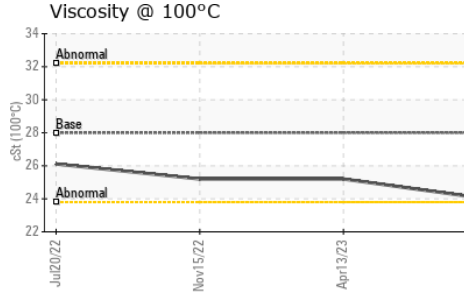
Viscosity @ 100°C



Water

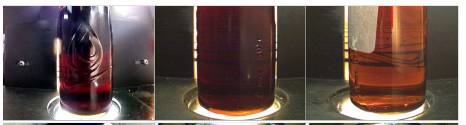


Viscosity @ 100°C



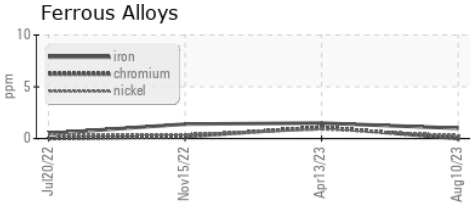
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	VLITE
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	151	**130**	144	135
Visc @ 100°C	cSt	ASTM D445	28	**24.0**	25.2	25.2
Viscosity Index (VI)	Scale	ASTM D2270	224	**217**	210	221

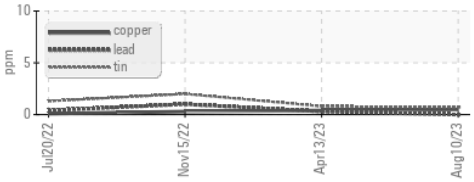
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

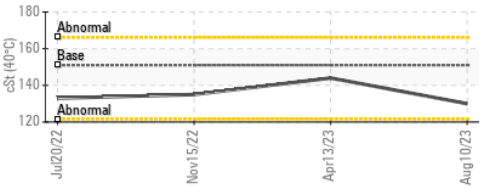
Ferrous Alloys



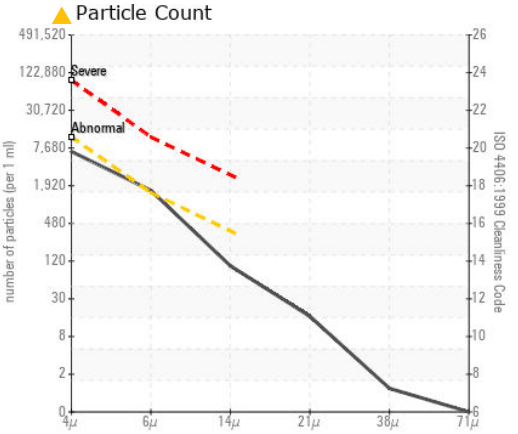
Non-ferrous Metals



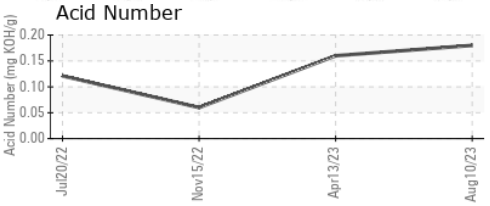
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60001212 **Received** : 28 Aug 2023
Lab Number : 05936650 **Diagnosed** : 29 Aug 2023
Unique Number : 10621921 **Diagnostician** : Angela Borella
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@eogresources.com
T: (432)686-3600
F: