



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
GOLDEN BEAR LGL

Machine Id
MRC-271

Component
Compressor

Fluid
TULCO LUBSOIL GEO XL LOW ASH 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO60002002	TO60001631	TO60001639
Sample Date		Client Info		01 Feb 2024	05 Jan 2024	01 Nov 2023
Machine Age	hrs	Client Info		14465	13828	12289
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	N/A	Not Chngd
Filter Changed		Client Info		Not Chngd	N/A	Not Chngd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	0	1	<1
Chromium	ppm	ASTM D5185m	>10	0	<1	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	<1	2	<1
Lead	ppm	ASTM D5185m	>25	<1	1	2
Copper	ppm	ASTM D5185m	>50	6	6	4
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

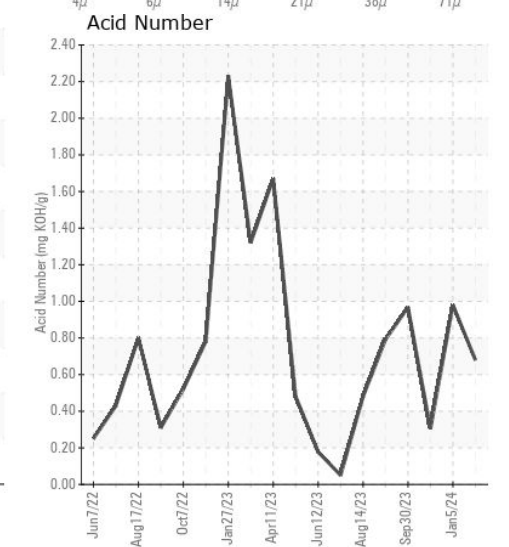
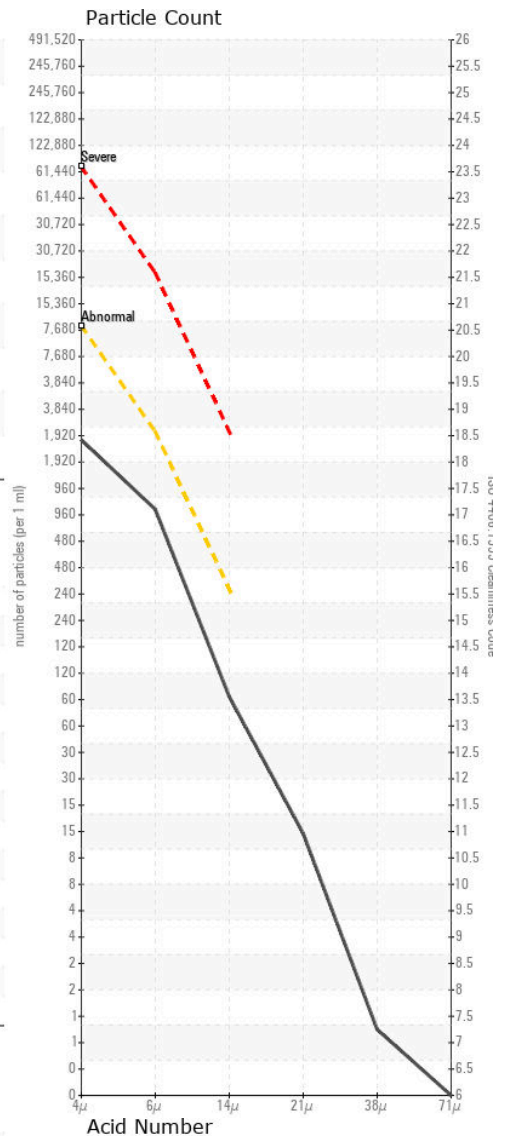
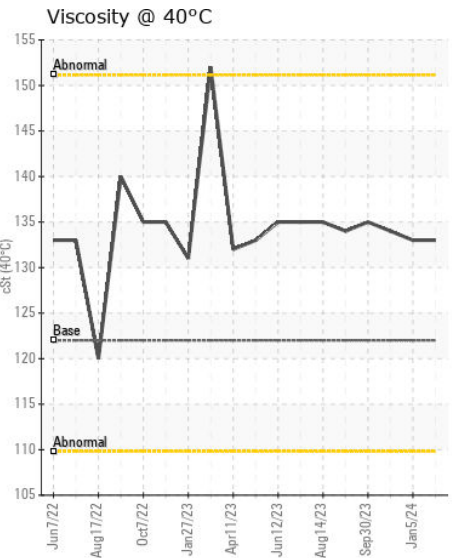
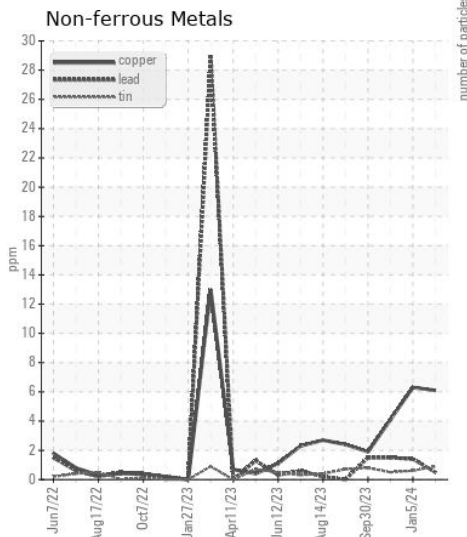
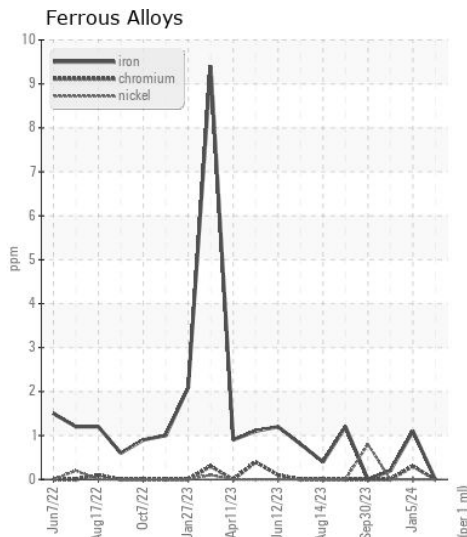
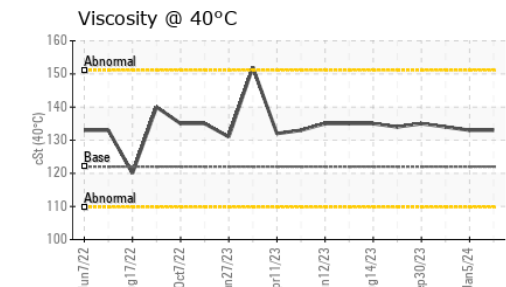
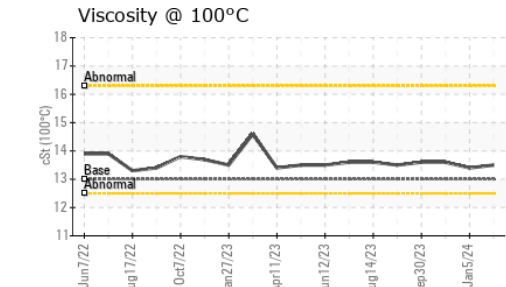
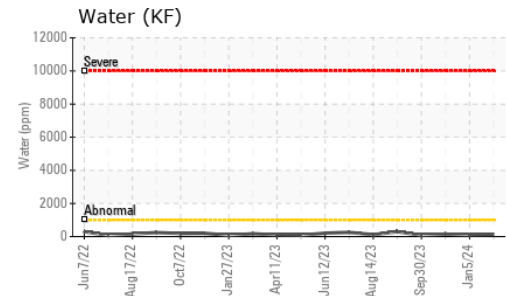
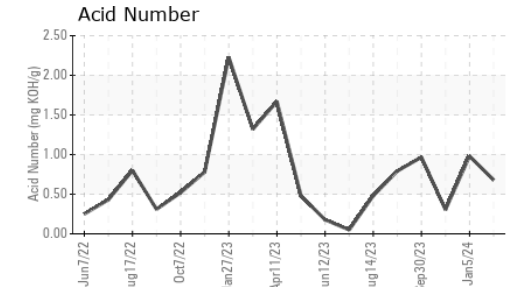
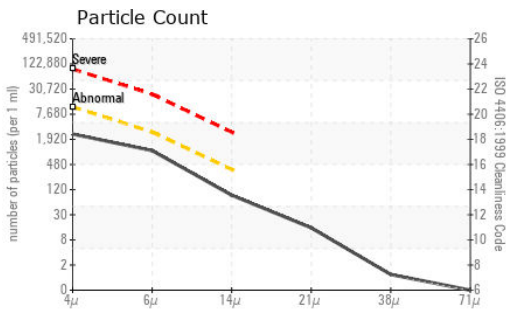
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>25	1	<1	2
Potassium	ppm	ASTM D5185m	>20	<1	2	1
Water	%	ASTM D6304	>0.1	0.012	0.009	0.014
ppm Water	ppm	ASTM D6304	>1000	129	97	148.7
Particles >4µm		ASTM D7647	>10000	2246	1201	1864
Particles >6µm		ASTM D7647	>2500	904	171	529
Particles >14µm		ASTM D7647	>320	78	7	26
Particles >21µm		ASTM D7647	>80	13	2	4
Particles >38µm		ASTM D7647	>20	1	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/17/13	17/15/10	18/16/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	0	2
Boron	ppm	ASTM D5185m	100	90	104	87
Barium	ppm	ASTM D5185m		0	3	0
Molybdenum	ppm	ASTM D5185m	1	0	<1	<1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	10	8	7	9
Calcium	ppm	ASTM D5185m	1150	1219	1203	1276
Phosphorus	ppm	ASTM D5185m	290	272	300	305
Zinc	ppm	ASTM D5185m	272	302	278	334
Sulfur	ppm	ASTM D5185m	1900	2089	2138	1856
Acid Number (AN)	mg KOH/g	ASTM D8045		0.68	0.98	0.305
Visc @ 40°C	cSt	ASTM D445	122	133	133	134
Visc @ 100°C	cSt	ASTM D445	13	13.5	13.4	13.6
Viscosity Index (VI)	Scale	ASTM D2270	103	96	94	96



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002002 **Received** : 13 Feb 2024
Lab Number : 06087284 **Tested** : 14 Feb 2024
Unique Number : 10874729 **Diagnosed** : 14 Feb 2024 - Wes Davis
Test Package : MOB 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)