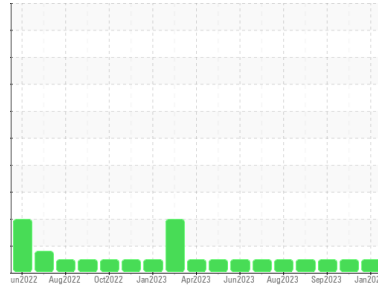


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**GOLDEN BEAR LGL**  
Machine Id  
**MRC-271**

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

**DIAGNOSIS**

**Recommendation**  
Resample at the next service interval to monitor.

**Wear**  
All 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			<b>TO60001631</b>	TO60001639	TO60001455
Sample Date	Client Info			<b>05 Jan 2024</b>	01 Nov 2023	30 Sep 2023
Machine Age	hrs Client Info			<b>13828</b>	12289	11540
Oil Age	hrs Client Info			<b>0</b>	0	0
Oil Changed	Client Info			<b>N/A</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>1</b>	<1	0
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m		<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	<1	<1
Lead	ppm	ASTM D5185m	>25	<b>1</b>	2	2
Copper	ppm	ASTM D5185m	>50	<b>6</b>	4	2
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	<1

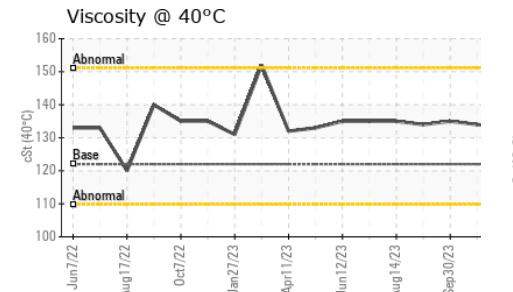
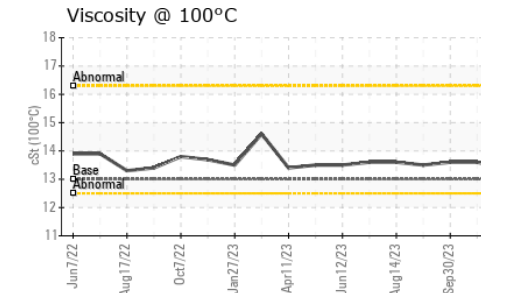
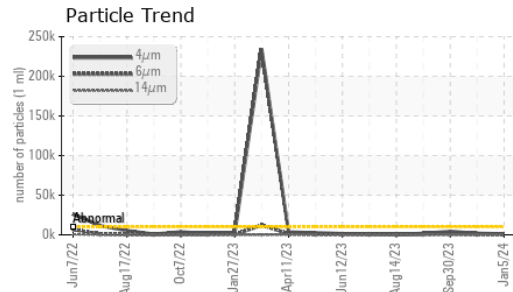
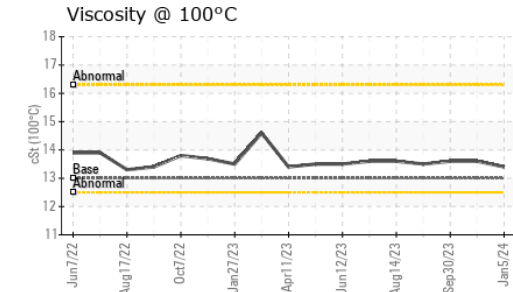
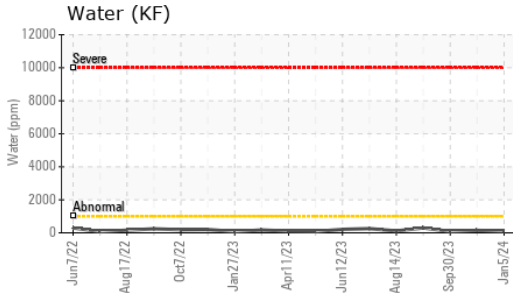
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	100	<b>104</b>	87	79
Barium	ppm	ASTM D5185m		<b>3</b>	0	0
Molybdenum	ppm	ASTM D5185m	1	<b>&lt;1</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	10	<b>7</b>	9	13
Calcium	ppm	ASTM D5185m	1150	<b>1203</b>	1276	1311
Phosphorus	ppm	ASTM D5185m	290	<b>300</b>	305	281
Zinc	ppm	ASTM D5185m	272	<b>278</b>	334	349
Sulfur	ppm	ASTM D5185m	1900	<b>2138</b>	1856	1798

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	2	2
Sodium	ppm	ASTM D5185m		<b>0</b>	2	<1
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	2
Water	%	ASTM D6304	>0.1	<b>0.009</b>	0.014	0.008
ppm Water	ppm	ASTM D6304	>1000	<b>97</b>	148.7	85.7

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>1201</b>	1864	4296
Particles >6µm		ASTM D7647	>2500	<b>171</b>	529	1004
Particles >14µm		ASTM D7647	>320	<b>7</b>	26	23
Particles >21µm		ASTM D7647	>80	<b>2</b>	4	4
Particles >38µm		ASTM D7647	>20	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>17/15/10</b>	18/16/12	19/17/12

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.98</b>	0.305	0.967

# OIL ANALYSIS REPORT

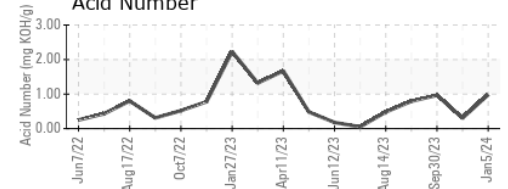
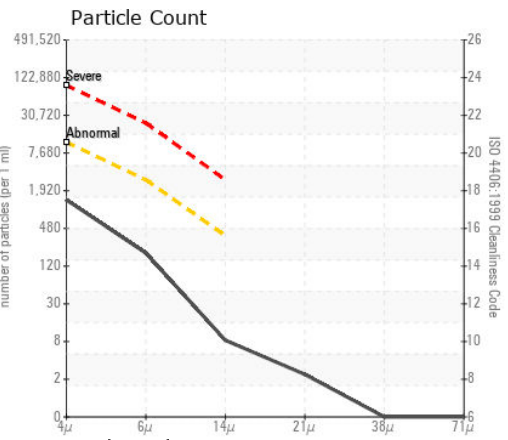
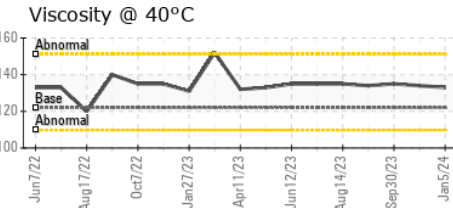
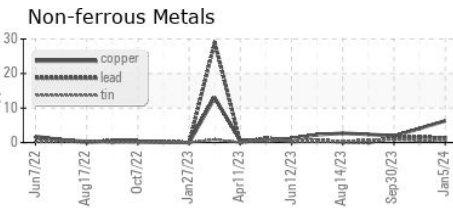
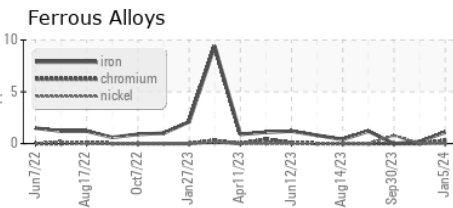


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	133	134
Visc @ 100°C	cSt	ASTM D445	13	13.4	13.6
Viscosity Index (VI)	Scale	ASTM D2270	103	94	96

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO60001631 **Received** : 17 Jan 2024  
**Lab Number** : 06063641 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10835023 **Diagnostician** : 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)