



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		TO60002285	TO60002266	TO60002464
Sample Date		Client Info		02 Jul 2024	31 May 2024	07 May 2024
Machine Age	hrs	Client Info		1808	17318	16743
Oil Age	hrs	Client Info		0	1	0
Filter Age	hrs	Client Info		0	1	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	2	0	1
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	<1	2
Lead	ppm	ASTM D5185m	>25	<1	1	<1
Copper	ppm	ASTM D5185m	>50	12	6	1
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

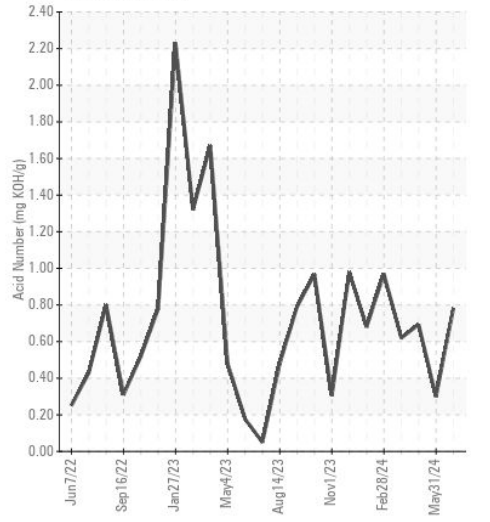
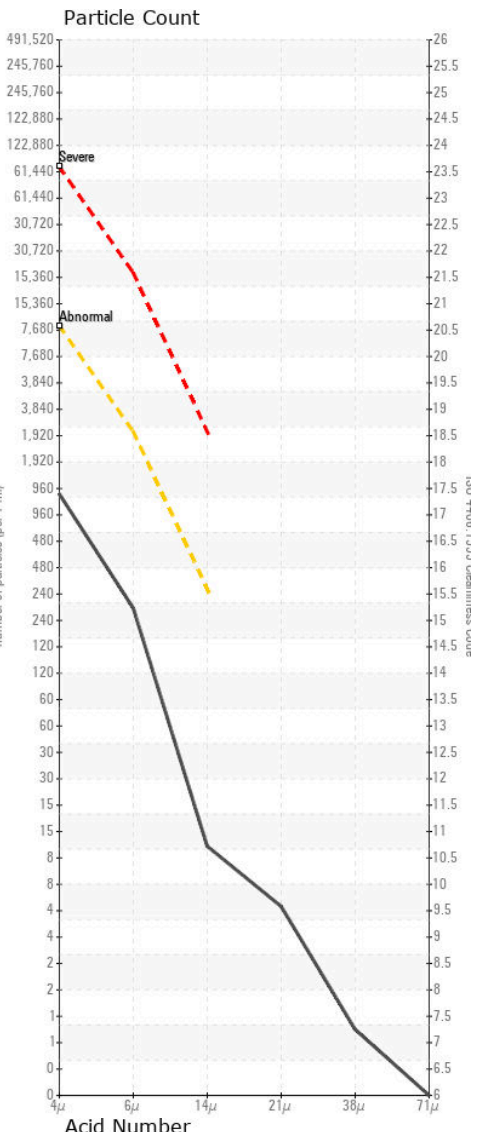
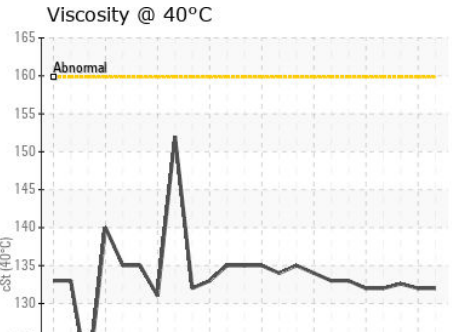
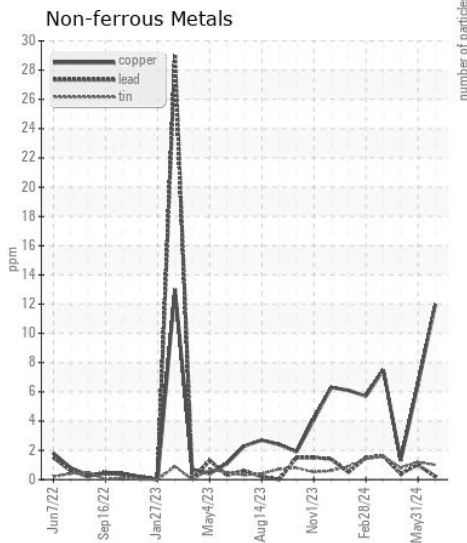
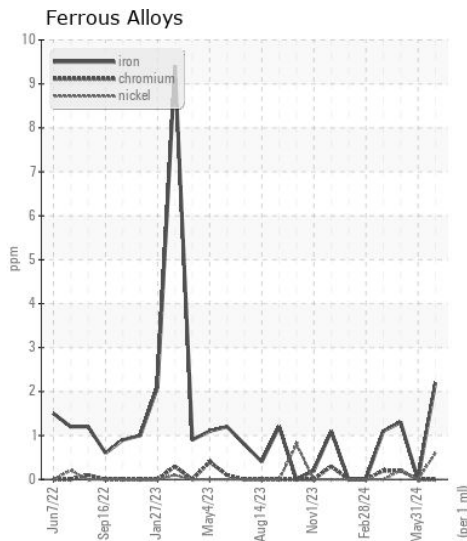
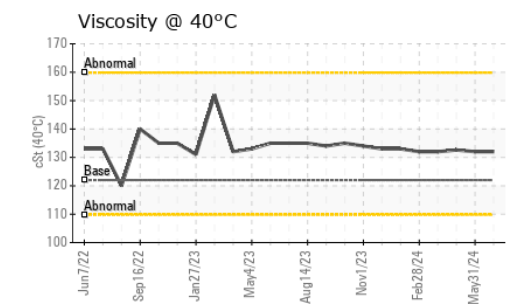
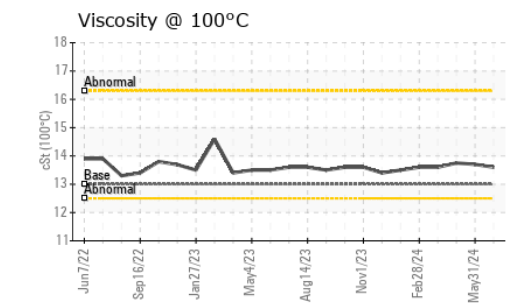
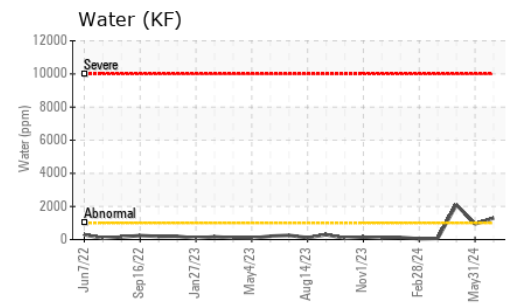
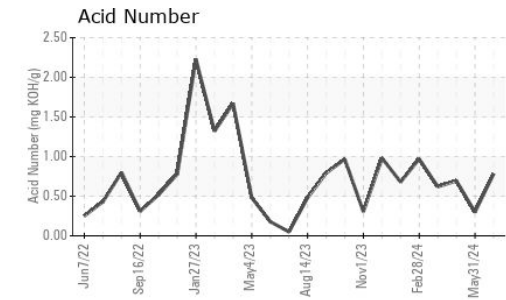
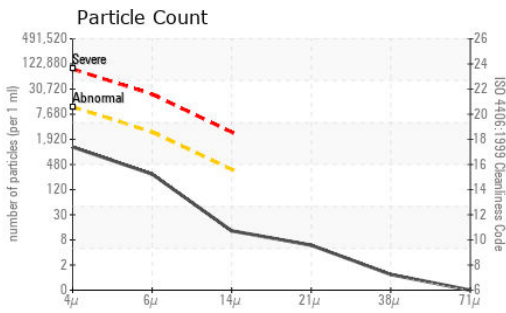
There is a trace of moisture present in the oil. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>25	2	2	3
Potassium	ppm	ASTM D5185m	>20	4	4	5
Water	%	ASTM D6304	>0.1	0.130	0.094	▲ 0.210
ppm Water	ppm	ASTM D6304	>1000	1300	940	▲ 2100
Particles >4µm		ASTM D7647	>10000	1106	1127	2649
Particles >6µm		ASTM D7647	>2500	248	214	451
Particles >14µm		ASTM D7647	>320	11	6	15
Particles >21µm		ASTM D7647	>80	5	2	3
Particles >38µm		ASTM D7647	>20	1	1	0
Particles >71µm		ASTM D7647	>4	0	1	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/15/11	17/15/10	19/16/11
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		7	5	7
Boron	ppm	ASTM D5185m	100	38	55	13
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m	1	0	0	1
Manganese	ppm	ASTM D5185m		1	<1	0
Magnesium	ppm	ASTM D5185m	10	8	8	5
Calcium	ppm	ASTM D5185m	1150	1238	1275	1311
Phosphorus	ppm	ASTM D5185m	290	289	280	353
Zinc	ppm	ASTM D5185m	272	317	332	359
Sulfur	ppm	ASTM D5185m	1900	3625	3661	5172
Acid Number (AN)	mg KOH/g	ASTM D8045		0.782	0.30	0.693
Visc @ 40°C	cSt	ASTM D445	122	132	132	132.6
Visc @ 100°C	cSt	ASTM D445	13	13.6	13.7	13.75
Viscosity Index (VI)	Scale	ASTM D2270	103	98	99	99



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002285 **Received** : 16 Jul 2024
Lab Number : 06238457 **Tested** : 18 Jul 2024
Unique Number : 11127291 **Diagnosed** : 18 Jul 2024 - Doug Bogart
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

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Certificate L2367
 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)