



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
GOLDEN BEAR LGL
 Machine Id
MRC-284
 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		TO60002280	TO60002268	TO60002466
Sample Date		Client Info		02 Jul 2024	31 May 2024	07 May 2024
Machine Age	hrs	Client Info		19094	18365	17794
Oil Age	hrs	Client Info		0	1	1
Filter Age	hrs	Client Info		0	1	1
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	2	0	2
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	<1	2
Lead	ppm	ASTM D5185m	>25	0	0	2
Copper	ppm	ASTM D5185m	>50	8	0	8
Tin	ppm	ASTM D5185m	>15	0	<1	2
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

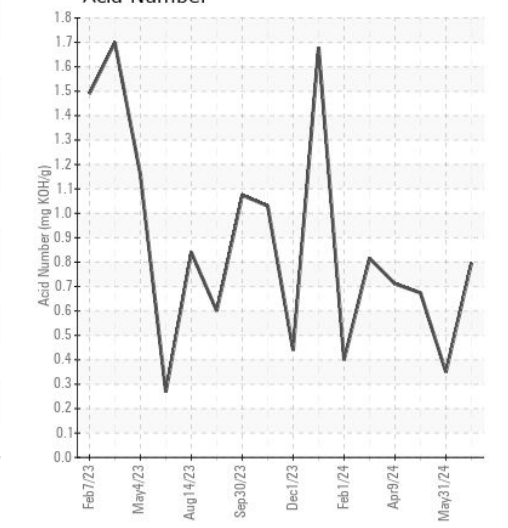
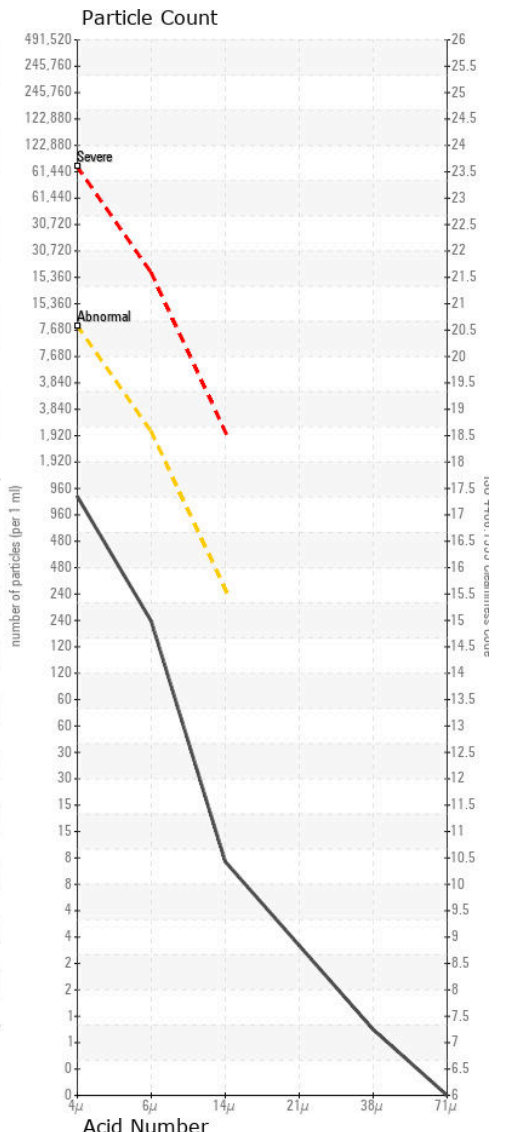
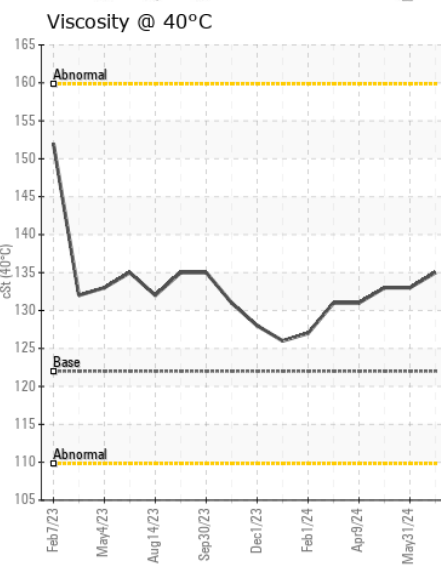
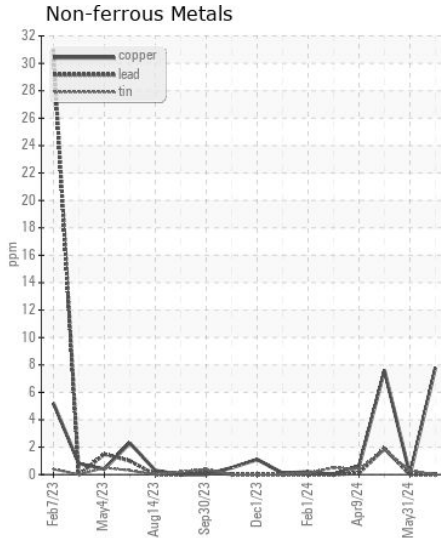
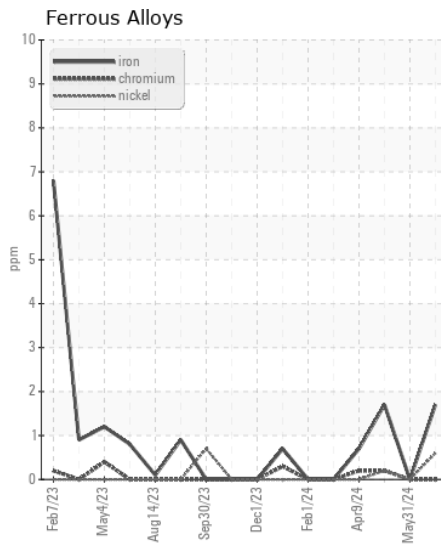
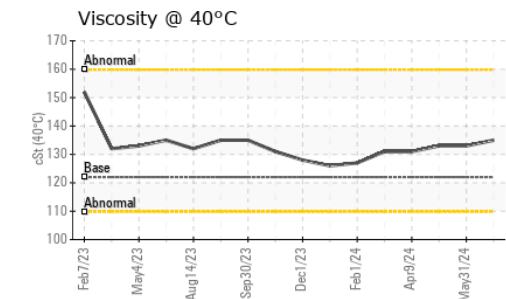
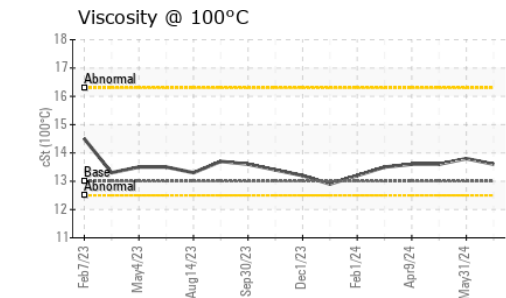
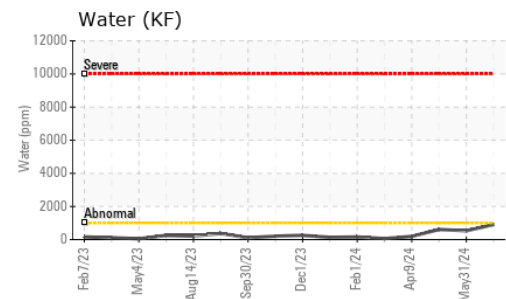
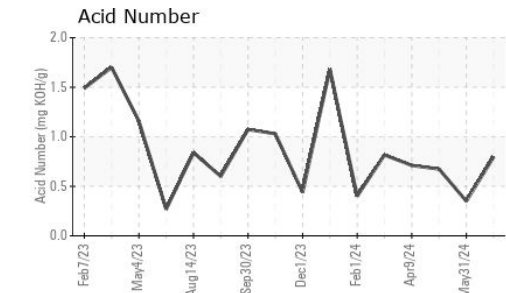
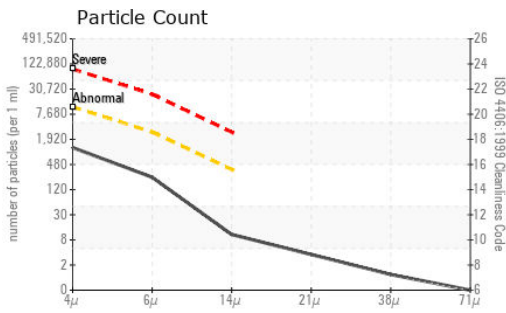
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	2	2	2
Potassium	ppm	ASTM D5185m	>20	5	5	4
Water	%	ASTM D6304	>0.1	0.091	0.053	0.061
ppm Water	ppm	ASTM D6304	>1000	910	530	610
Particles >4µm		ASTM D7647	>10000	1071	501	3338
Particles >6µm		ASTM D7647	>2500	209	111	449
Particles >14µm		ASTM D7647	>320	9	2	11
Particles >21µm		ASTM D7647	>80	3	0	3
Particles >38µm		ASTM D7647	>20	1	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/15/10	16/14/9	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		10	9	3
Boron	ppm	ASTM D5185m	100	7	7	62
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	7	6	6
Calcium	ppm	ASTM D5185m	1150	1259	1321	1282
Phosphorus	ppm	ASTM D5185m	290	312	314	319
Zinc	ppm	ASTM D5185m	272	334	358	338
Sulfur	ppm	ASTM D5185m	1900	3851	4458	3823
Acid Number (AN)	mg KOH/g	ASTM D8045		0.796	0.35	0.674
Visc @ 40°C	cSt	ASTM D445	122	135	133	133
Visc @ 100°C	cSt	ASTM D445	13	13.6	13.8	13.6
Viscosity Index (VI)	Scale	ASTM D2270	103	95	99	97



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002280 **Received** : 16 Jul 2024
Lab Number : 06238458 **Tested** : 18 Jul 2024
Unique Number : 11127292 **Diagnosed** : 18 Jul 2024 - Doug Bogart
Test Package : MOB 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)

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