



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		TO60001982	TO60001629	TO60001885
Sample Date		Client Info		01 Feb 2024	05 Jan 2024	01 Dec 2023
Machine Age	hrs	Client Info		15501	14886	14071
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	0
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	0
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	<1	1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

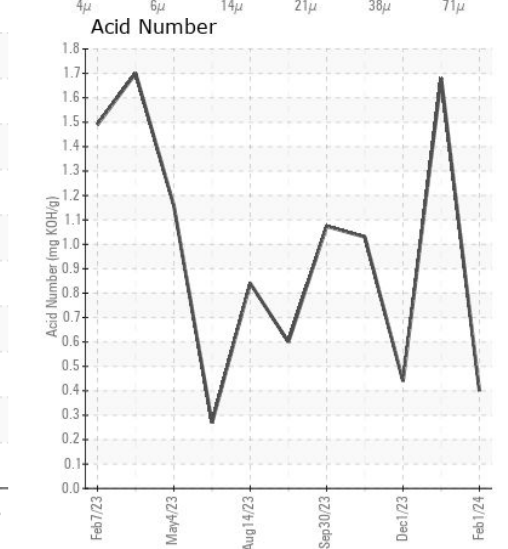
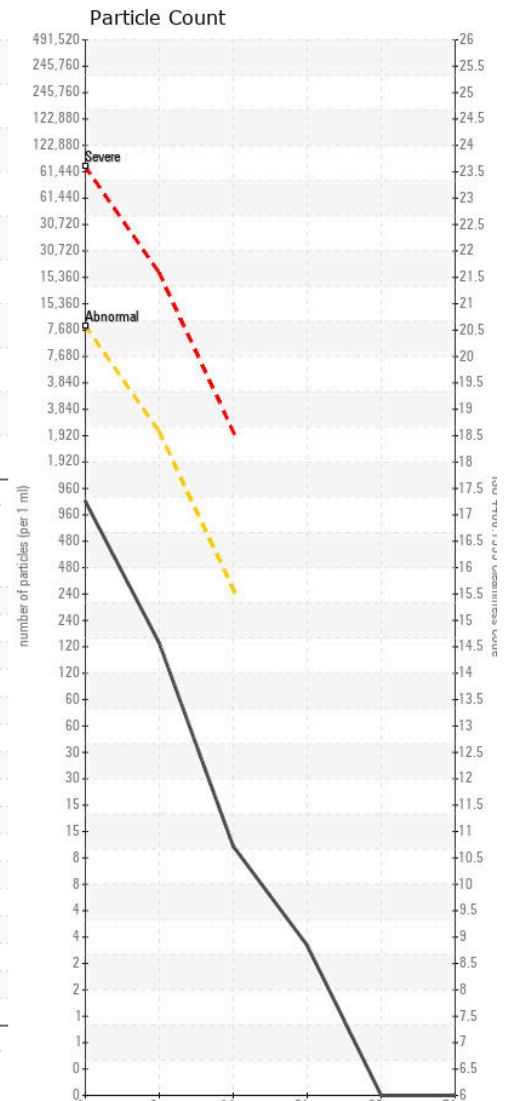
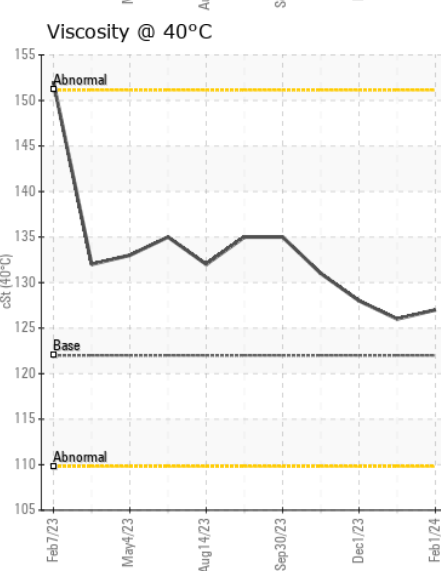
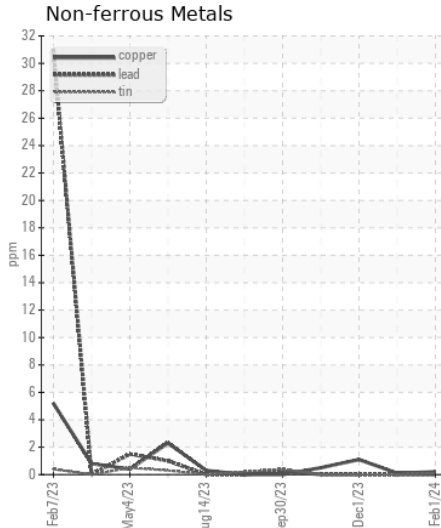
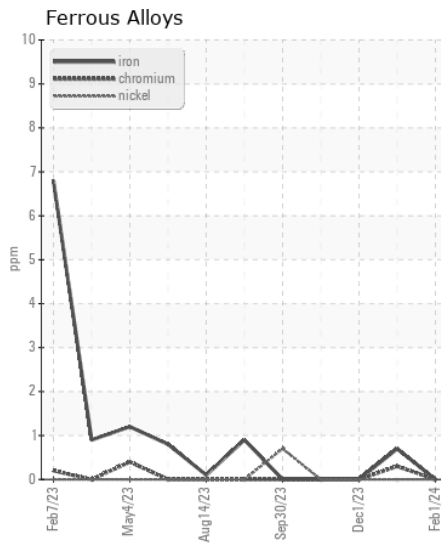
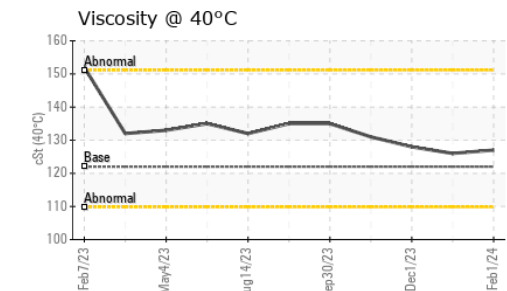
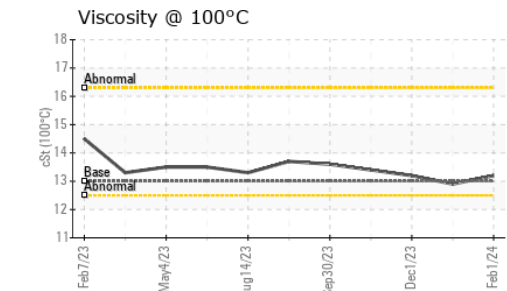
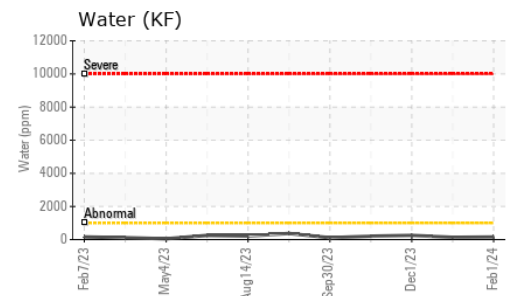
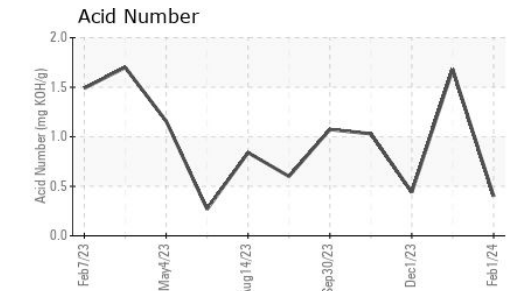
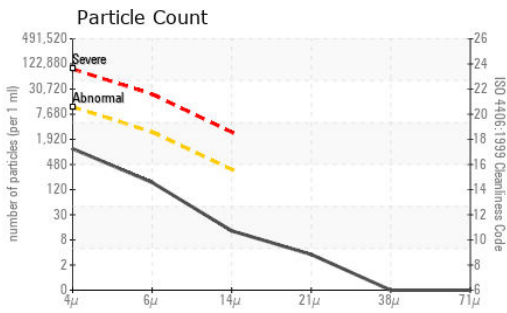
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	2	2	2
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Water	%	ASTM D6304	>0.1	0.015	0.013	0.025
ppm Water	ppm	ASTM D6304	>1000	157	136	256
Particles >4µm		ASTM D7647	>10000	1004	368	1702
Particles >6µm		ASTM D7647	>2500	157	63	488
Particles >14µm		ASTM D7647	>320	11	6	40
Particles >21µm		ASTM D7647	>80	3	2	7
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/14/11	16/13/10	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	4
Boron	ppm	ASTM D5185m	100	91	136	124
Barium	ppm	ASTM D5185m		0	3	0
Molybdenum	ppm	ASTM D5185m	1	0	<1	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	10	8	6	8
Calcium	ppm	ASTM D5185m	1150	1209	1205	1181
Phosphorus	ppm	ASTM D5185m	290	281	296	263
Zinc	ppm	ASTM D5185m	272	304	272	278
Sulfur	ppm	ASTM D5185m	1900	3215	2832	1993
Acid Number (AN)	mg KOH/g	ASTM D8045		0.40	1.68	0.44
Visc @ 40°C	cSt	ASTM D445	122	127	126	128
Visc @ 100°C	cSt	ASTM D445	13	13.2	12.9	13.2
Viscosity Index (VI)	Scale	ASTM D2270	103	97	94	96



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60001982
Lab Number : 06087285
Unique Number : 10874730
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

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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)