



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
JAL NM
 Machine Id
MRC-202
 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		TO60001974	TO60002004	TO60001912
Sample Date		Client Info		01 Feb 2024	11 Jan 2024	01 Dec 2023
Machine Age	hrs	Client Info		22491	22535	21573
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	N/A	N/A
Filter Changed		Client Info		Not Chngd	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<1	2	<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	<1
Aluminum	ppm	ASTM D5185m	>25	3	2	2
Lead	ppm	ASTM D5185m	>25	2	3	2
Copper	ppm	ASTM D5185m	>50	29	32	27
Tin	ppm	ASTM D5185m	>15	3	3	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

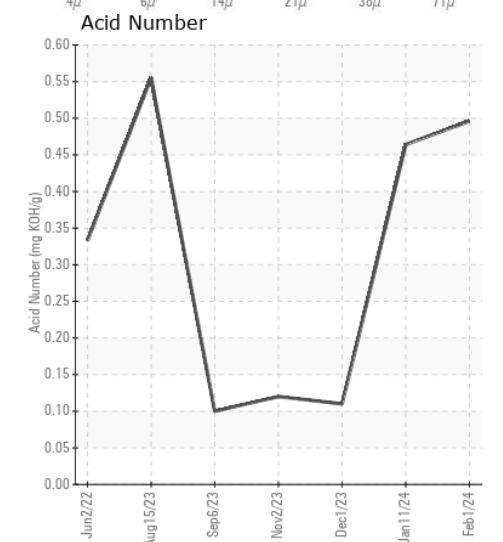
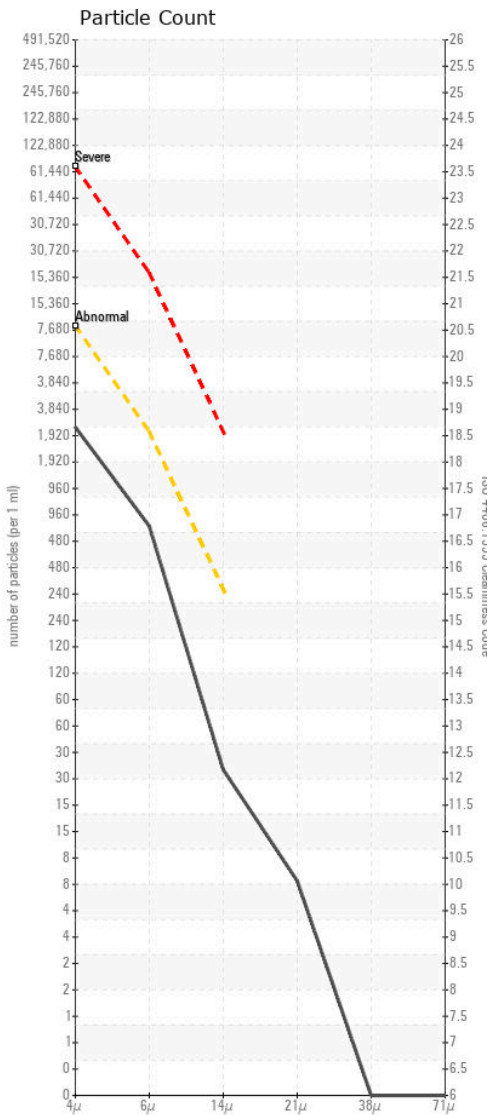
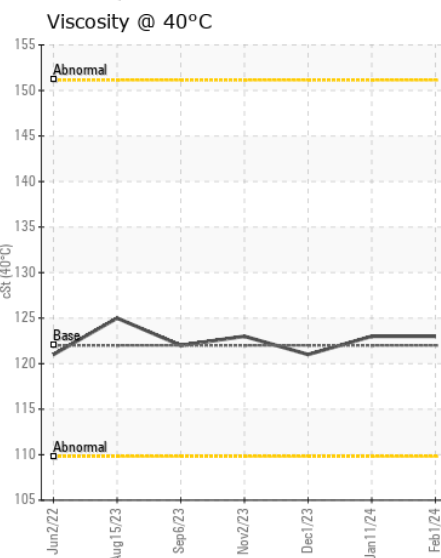
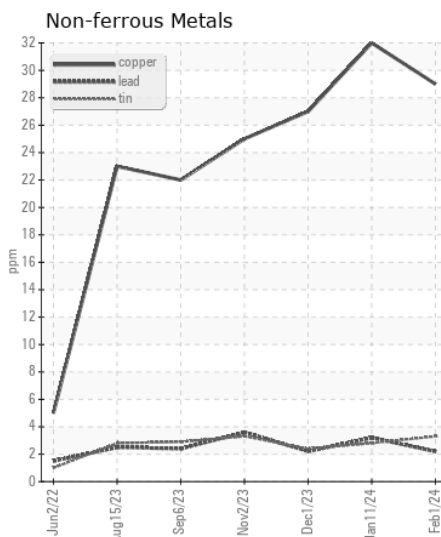
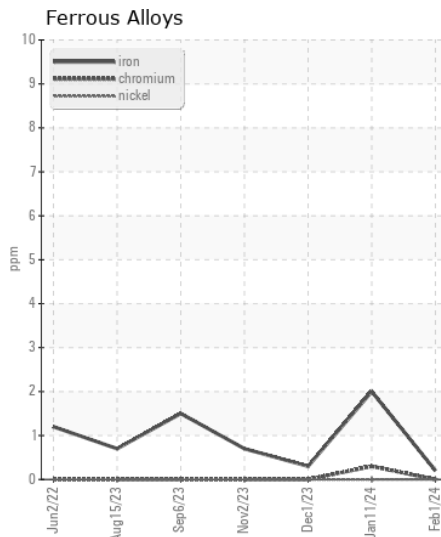
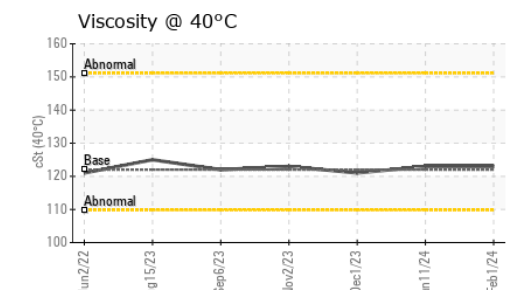
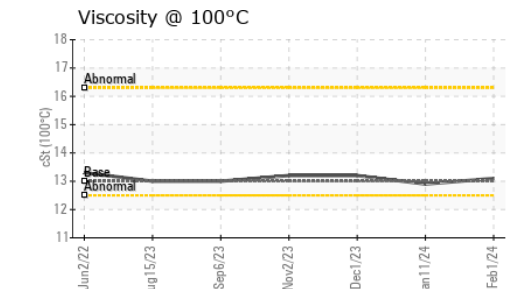
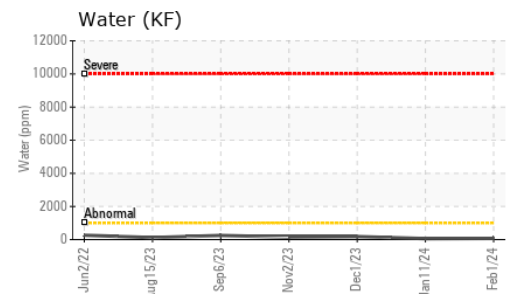
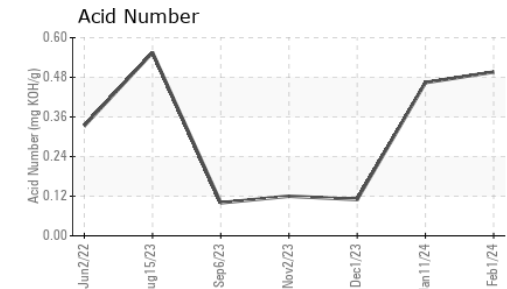
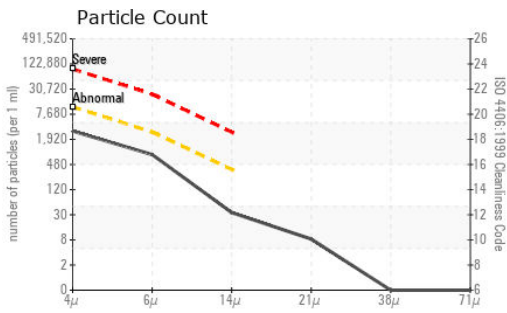
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>25	2	1	2
Potassium	ppm	ASTM D5185m	>20	0	1	0
Water	%	ASTM D6304	>0.1	0.007	0.005	0.018
ppm Water	ppm	ASTM D6304	>1000	71	57	182
Particles >4µm		ASTM D7647	>10000	2653	3535	---
Particles >6µm		ASTM D7647	>2500	727	572	---
Particles >14µm		ASTM D7647	>320	30	15	---
Particles >21µm		ASTM D7647	>80	7	4	---
Particles >38µm		ASTM D7647	>20	0	0	---
Particles >71µm		ASTM D7647	>4	0	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/17/12	19/16/11	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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	42	45	40
Barium	ppm	ASTM D5185m		<1	3	0
Molybdenum	ppm	ASTM D5185m	1	2	3	2
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	10	13	11	12
Calcium	ppm	ASTM D5185m	1150	1261	1207	1178
Phosphorus	ppm	ASTM D5185m	290	303	318	275
Zinc	ppm	ASTM D5185m	272	360	337	325
Sulfur	ppm	ASTM D5185m	1900	2145	2262	1957
Acid Number (AN)	mg KOH/g	ASTM D8045		0.496	0.464	0.11
Visc @ 40°C	cSt	ASTM D445	122	123	123	121
Visc @ 100°C	cSt	ASTM D445	13	13.1	12.9	13.2
Viscosity Index (VI)	Scale	ASTM D2270	103	99	97	103



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60001974
Lab Number : 06087288
Unique Number : 10874733
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

Received : 13 Feb 2024
Tested : 14 Feb 2024
Diagnosed : 14 Feb 2024 - Wes Davis

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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)