



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		<b>TO60002004</b>	TO60001912	TO60001646
Sample Date		Client Info		<b>11 Jan 2024</b>	01 Dec 2023	02 Nov 2023
Machine Age	hrs	Client Info		<b>22535</b>	21573	20877
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>2</b>	<1	<1
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m		<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>25	<b>3</b>	2	4
Copper	ppm	ASTM D5185m	>50	<b>32</b>	27	25
Tin	ppm	ASTM D5185m	>15	<b>3</b>	2	3
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

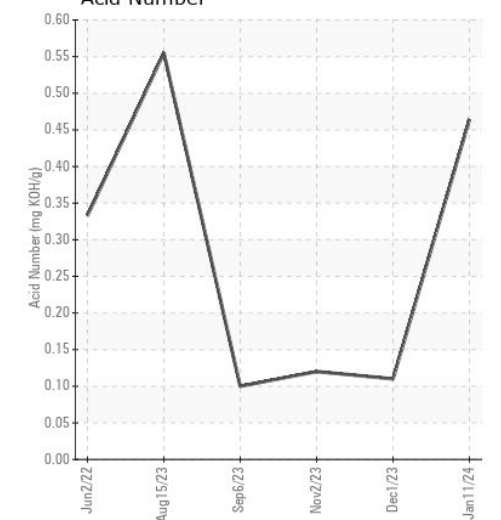
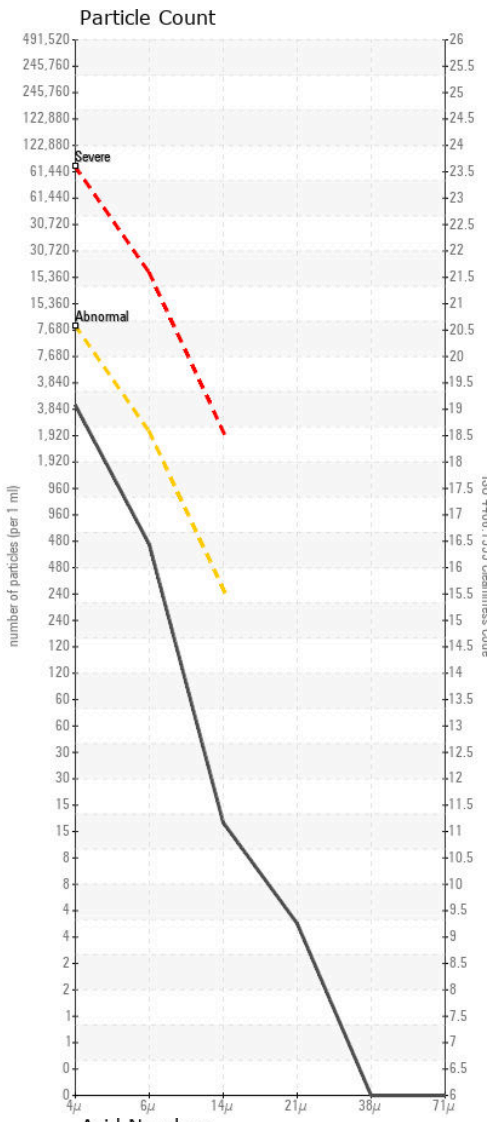
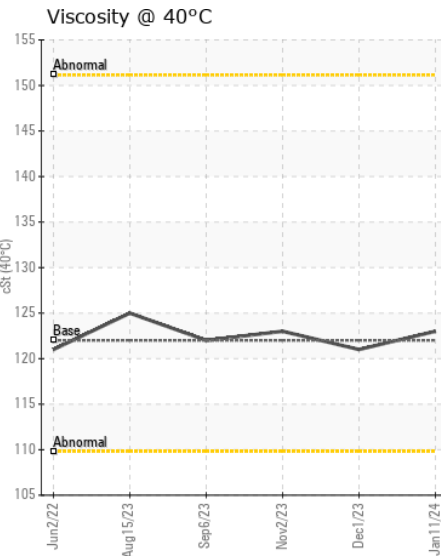
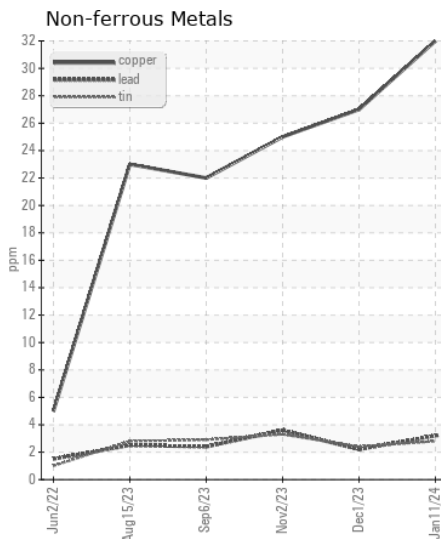
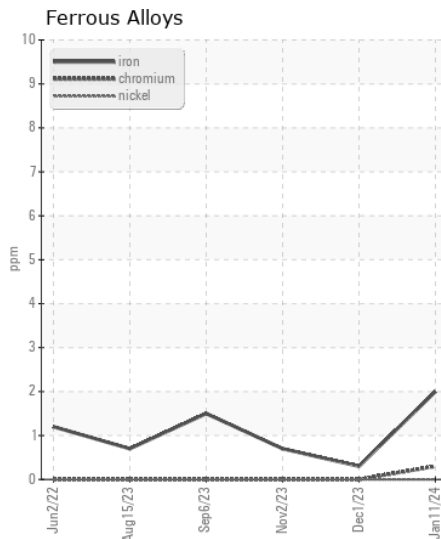
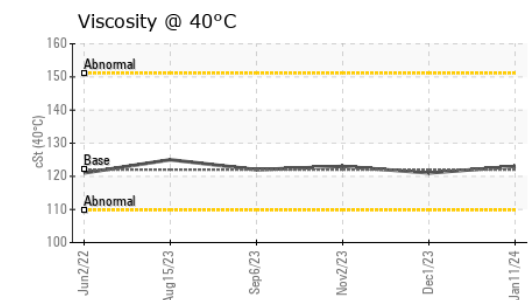
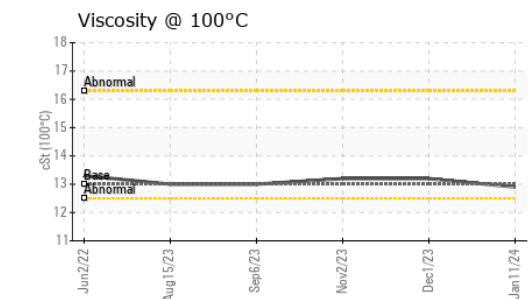
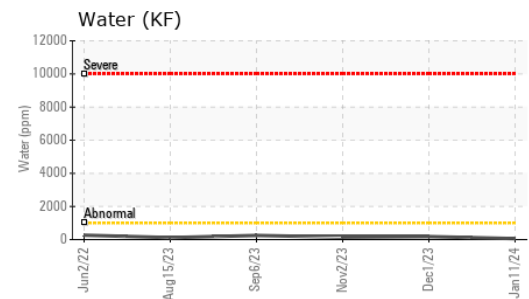
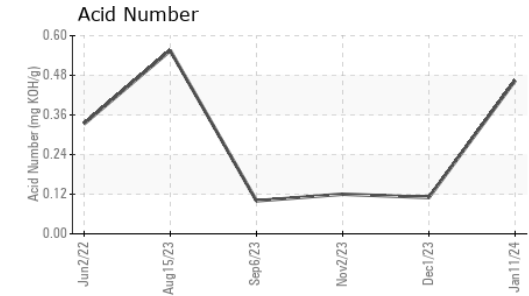
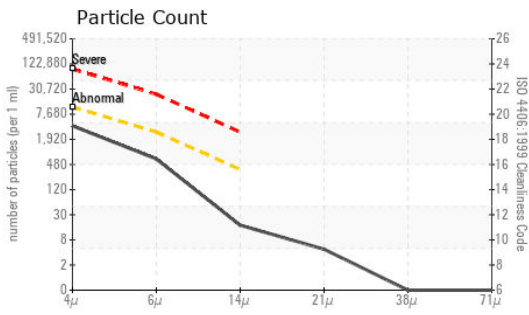
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>25	<b>1</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	<1
Water	%	ASTM D6304	>0.1	<b>0.005</b>	0.018	0.014
ppm Water	ppm	ASTM D6304	>1000	<b>57</b>	182	147.4
Particles >4µm		ASTM D7647	>10000	<b>3535</b>	---	535
Particles >6µm		ASTM D7647	>2500	<b>572</b>	---	159
Particles >14µm		ASTM D7647	>320	<b>15</b>	---	10
Particles >21µm		ASTM D7647	>80	<b>4</b>	---	2
Particles >38µm		ASTM D7647	>20	<b>0</b>	---	0
Particles >71µm		ASTM D7647	>4	<b>0</b>	---	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>19/16/11</b>	---	16/14/10
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	LIGHT
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	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		<b>0</b>	4	2
Boron	ppm	ASTM D5185m	100	<b>45</b>	40	40
Barium	ppm	ASTM D5185m		<b>3</b>	0	0
Molybdenum	ppm	ASTM D5185m	1	<b>3</b>	2	4
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	10	<b>11</b>	12	12
Calcium	ppm	ASTM D5185m	1150	<b>1207</b>	1178	1303
Phosphorus	ppm	ASTM D5185m	290	<b>318</b>	275	332
Zinc	ppm	ASTM D5185m	272	<b>337</b>	325	390
Sulfur	ppm	ASTM D5185m	1900	<b>2262</b>	1957	2281
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.464</b>	0.11	0.12
Visc @ 40°C	cSt	ASTM D445	122	<b>123</b>	121	123
Visc @ 100°C	cSt	ASTM D445	13	<b>12.9</b>	13.2	13.2
Viscosity Index (VI)	Scale	ASTM D2270	103	<b>97</b>	103	101



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO60002004 **Received** : 17 Jan 2024  
**Lab Number** : 06063645 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10835027 **Diagnostician** : Wes Davis  
**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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