



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
5509 CHAMPIONS DR
 Machine Id
MRC-294
 Component
Compressor
 Fluid
TULCO LUBSOIL GEO XL LOW ASH 40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO60002935	TO60002726	TO60002600
Sample Date		Client Info		09 Jul 2024	31 May 2024	01 May 2024
Machine Age	hrs	Client Info		13601	12719	12002
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	ABNORMAL

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		<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	<1	2
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>50	6	0	1
Tin	ppm	ASTM D5185m	>15	0	<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

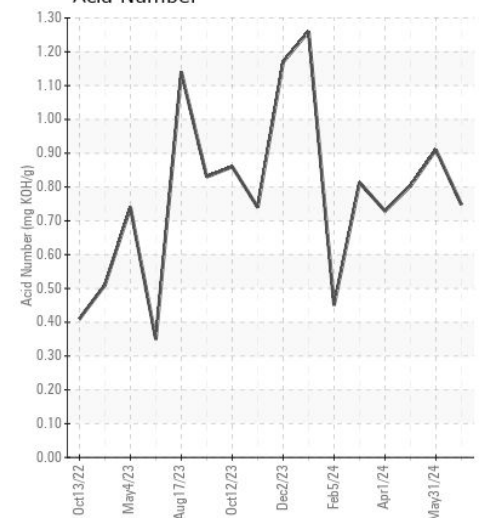
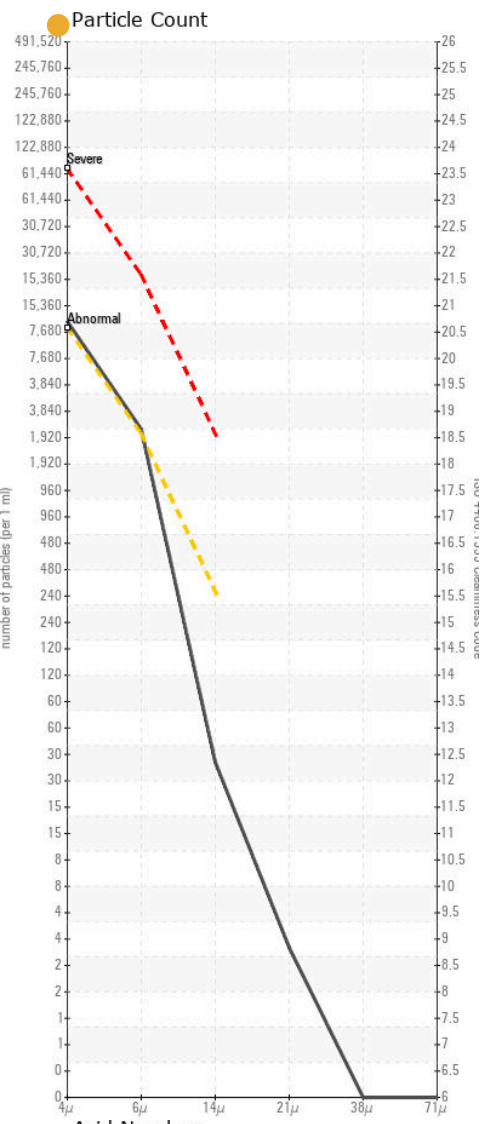
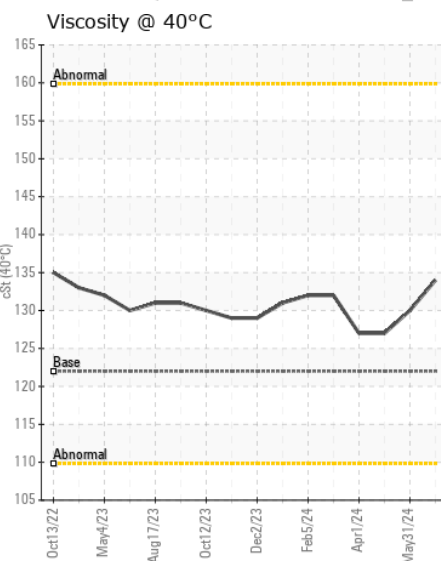
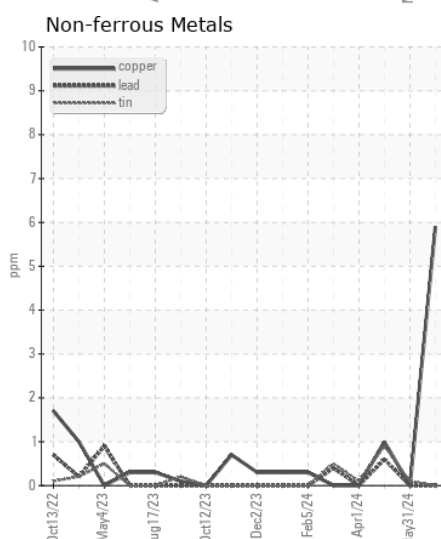
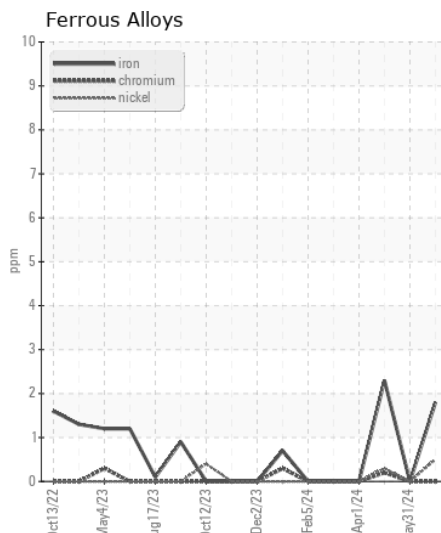
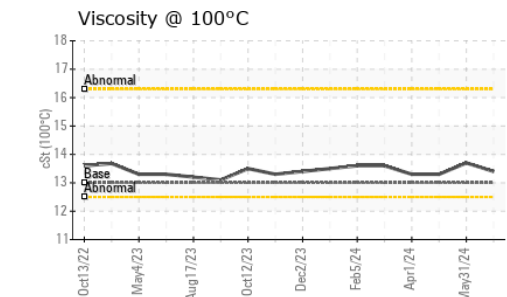
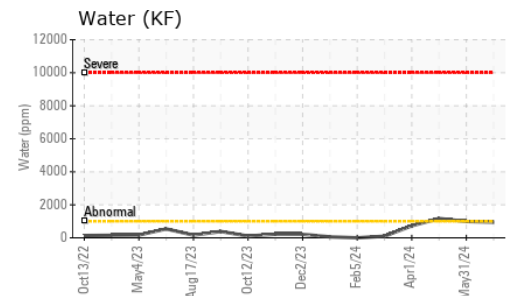
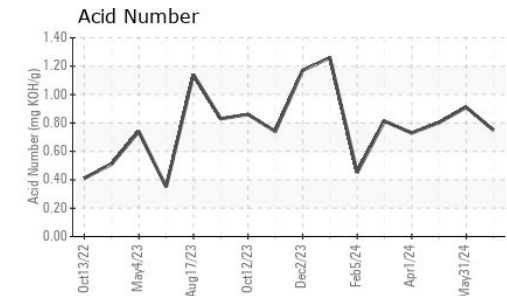
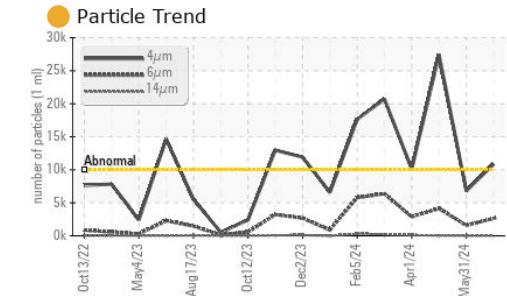
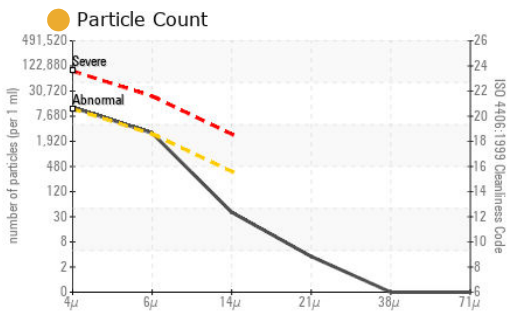
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>25	3	2	5
Potassium	ppm	ASTM D5185m	>20	5	6	7
Water	%	ASTM D6304	>0.1	0.095	0.099	▲ 0.117
ppm Water	ppm	ASTM D6304	>1000	950	990	▲ 1170
Particles >4µm		ASTM D7647	>10000	● 10863	6808	▲ 27419
Particles >6µm		ASTM D7647	>2500	● 2649	1575	● 4147
Particles >14µm		ASTM D7647	>320	34	11	42
Particles >21µm		ASTM D7647	>80	3	1	5
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	● 21/19/12	20/18/11	▲ 22/19/13
Silt	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	12
Boron	ppm	ASTM D5185m	100	3	3	10
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	7	7
Calcium	ppm	ASTM D5185m	1150	1253	1309	2012
Phosphorus	ppm	ASTM D5185m	290	314	312	544
Zinc	ppm	ASTM D5185m	272	332	354	551
Sulfur	ppm	ASTM D5185m	1900	4009	4351	7876
Acid Number (AN)	mg KOH/g	ASTM D8045		0.748	0.91	0.803
Visc @ 40°C	cSt	ASTM D445	122	134	130	127
Visc @ 100°C	cSt	ASTM D445	13	13.4	13.7	13.3
Viscosity Index (VI)	Scale	ASTM D2270	103	94	101	98



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002935 **Received** : 16 Jul 2024
Lab Number : 06238467 **Tested** : 18 Jul 2024
Unique Number : 11127301 **Diagnosed** : 18 Jul 2024 - Doug Bogart
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)