



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
5509 CHAMPIONS DR

Machine Id
MRC-294

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		TO60001986	TO60001922	TO60001748
Sample Date		Client Info		10 Jan 2024	02 Dec 2023	05 Nov 2023
Machine Age	hrs	Client Info		9409	8060	8000
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	N/A
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				NORMAL	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

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

CONTAMINATION

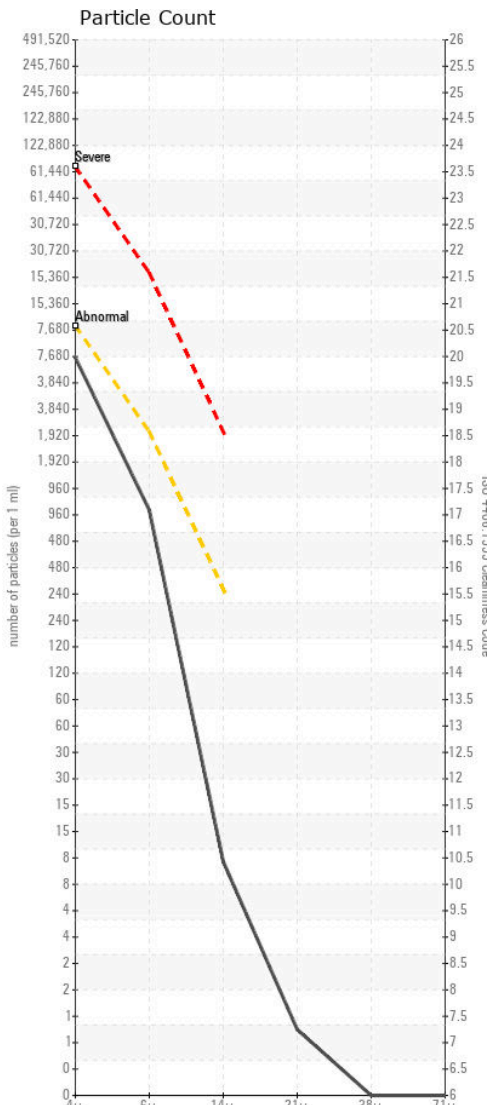
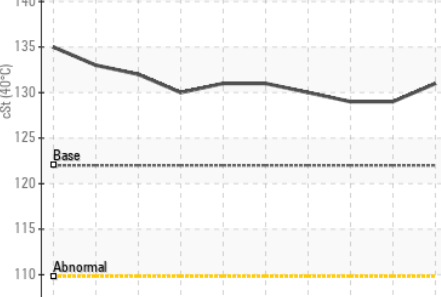
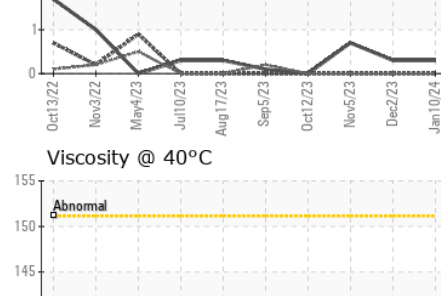
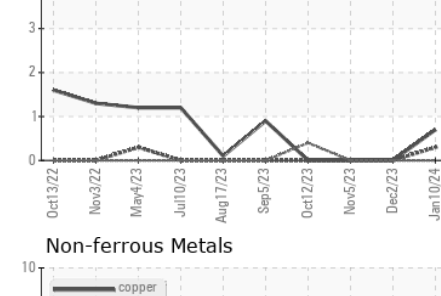
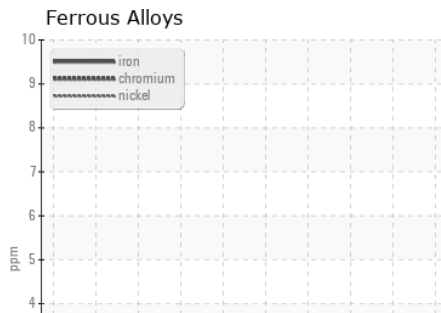
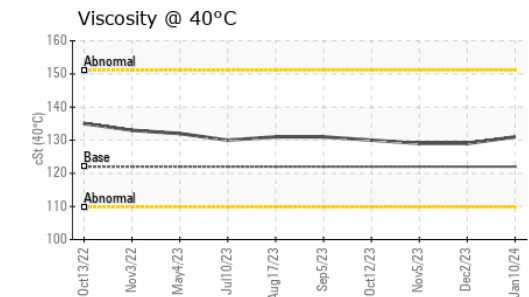
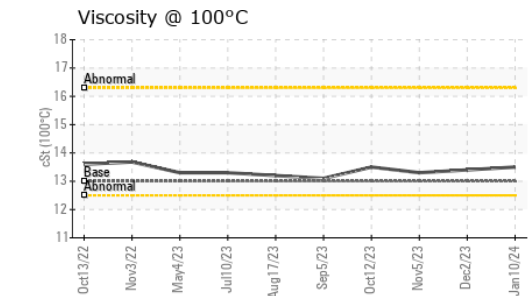
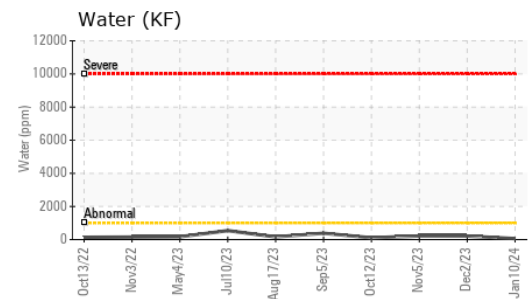
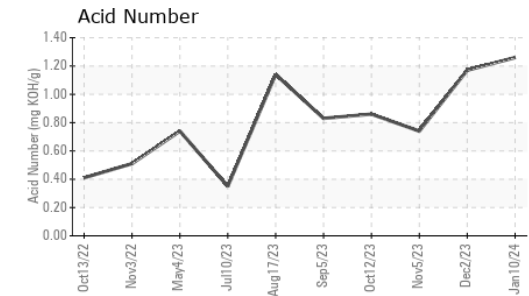
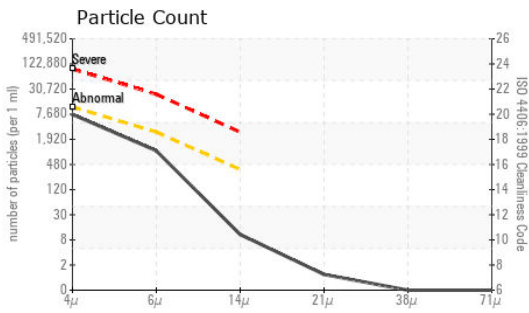
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>25	2	11	2
Potassium	ppm	ASTM D5185m	>20	3	0	2
Water	%	ASTM D6304	>0.1	0.005	0.021	0.021
ppm Water	ppm	ASTM D6304	>1000	59	212	217.5
Particles >4µm		ASTM D7647	>10000	6588	▲ 11903	▲ 12968
Particles >6µm		ASTM D7647	>2500	896	▲ 2675	▲ 3218
Particles >14µm		ASTM D7647	>320	9	100	74
Particles >21µm		ASTM D7647	>80	1	11	8
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	20/17/10	▲ 21/19/14	▲ 21/19/13
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		0	4	2
Boron	ppm	ASTM D5185m	100	60	82	105
Barium	ppm	ASTM D5185m		3	0	0
Molybdenum	ppm	ASTM D5185m	1	0	<1	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	10	4	5	7
Calcium	ppm	ASTM D5185m	1150	1207	1286	1276
Phosphorus	ppm	ASTM D5185m	290	323	293	304
Zinc	ppm	ASTM D5185m	272	285	302	327
Sulfur	ppm	ASTM D5185m	1900	4459	3360	2317
Acid Number (AN)	mg KOH/g	ASTM D8045		1.26	1.17	0.74
Visc @ 40°C	cSt	ASTM D445	122	131	129	129
Visc @ 100°C	cSt	ASTM D445	13	13.5	13.4	13.3
Viscosity Index (VI)	Scale	ASTM D2270	103	97	98	97



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60001986 **Received** : 17 Jan 2024
Lab Number : 06063646 **Diagnosed** : 19 Jan 2024
Unique Number : 10835028 **Diagnostician** : Wes Davis
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)