



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
MRC-302
Component
Compressor
Fluid
TULCO LUBSOIL LPG WS 150 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO60001969	TO60001940	TO60001735
Sample Date		Client Info		10 Jan 2024	02 Dec 2023	04 Nov 2023
Machine Age	hrs	Client Info		4217	3935	4168
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	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	1	<1	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	0	<1
Lead	ppm	ASTM D5185m	>25	<1	0	<1
Copper	ppm	ASTM D5185m	>50	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	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

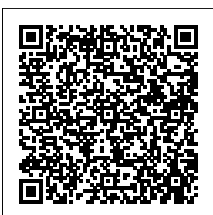
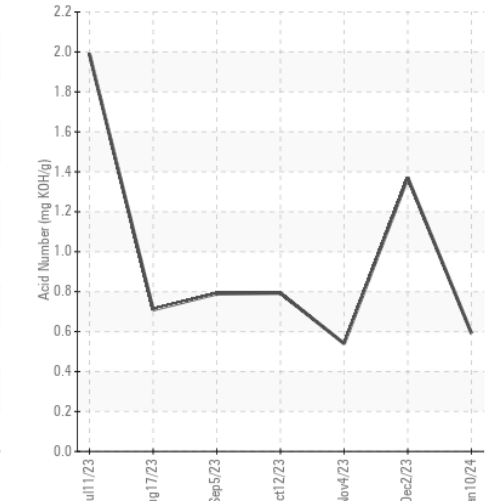
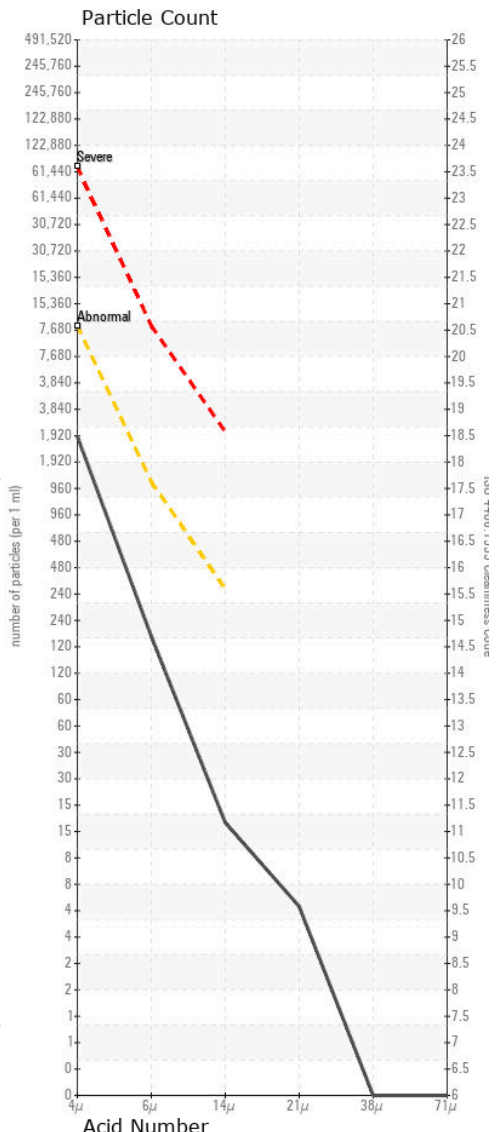
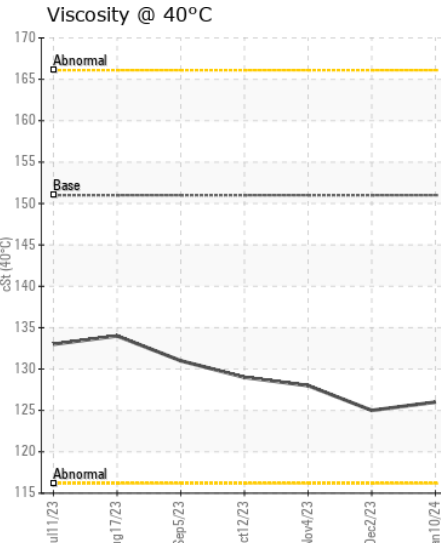
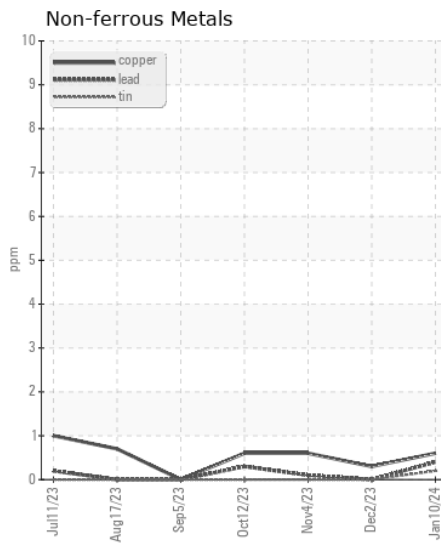
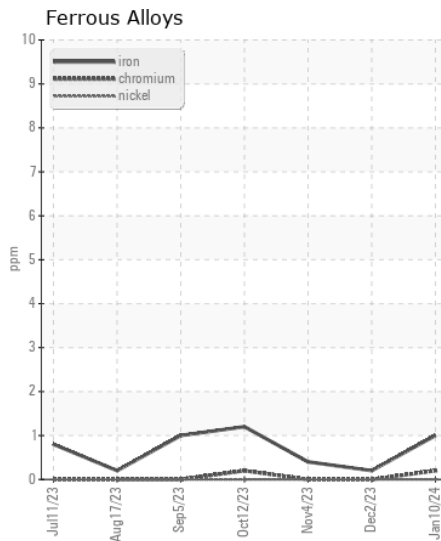
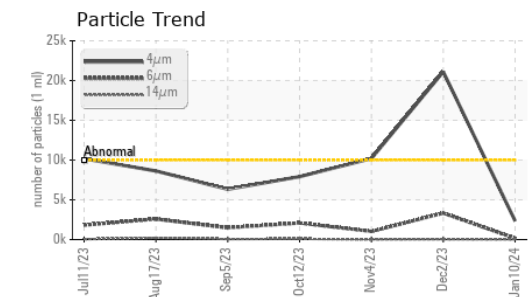
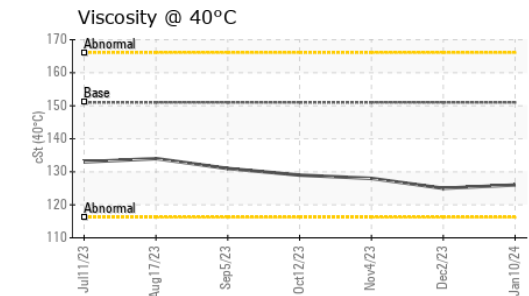
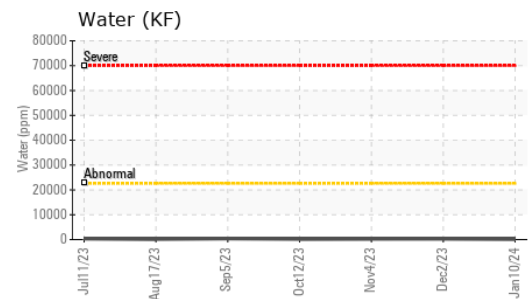
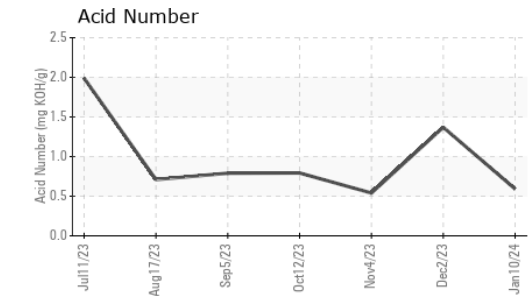
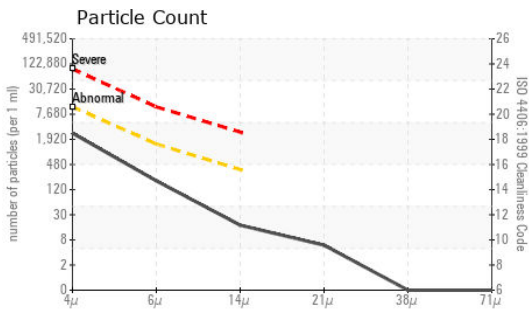
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	▲ 33	▲ 26
Potassium	ppm	ASTM D5185m	>20	1	0	1
Water	%	ASTM D6304	>2.26	0.004	0.024	0.021
ppm Water	ppm	ASTM D6304	>22600	46	243	219.8
Particles >4µm		ASTM D7647	>10000	2355	▲ 21108	▲ 10200
Particles >6µm		ASTM D7647	>1300	172	▲ 3338	1026
Particles >14µm		ASTM D7647	>320	15	30	15
Particles >21µm		ASTM D7647	>80	5	5	4
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/17/15	18/15/11	▲ 22/19/12	▲ 21/17/11
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	>2.26	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	10	8
Boron	ppm	ASTM D5185m	0	105	109	107
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	0	8	8	10
Calcium	ppm	ASTM D5185m	0	1211	1287	1310
Phosphorus	ppm	ASTM D5185m	0	313	287	307
Zinc	ppm	ASTM D5185m	0	275	292	340
Sulfur	ppm	ASTM D5185m	0	2996	2711	3019
Acid Number (AN)	mg KOH/g	ASTM D8045		0.592	1.37	0.54
Visc @ 40°C	cSt	ASTM D445	151	126	125	128
Visc @ 100°C	cSt	ASTM D445	28	13.2	13.1	13.2
Viscosity Index (VI)	Scale	ASTM D2270	224	98	98	96



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60001969 **Received** : 18 Jan 2024
Lab Number : 06065052 **Diagnosed** : 22 Jan 2024
Unique Number : 10836434 **Diagnostician** : Don Baldrige
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)