



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
MRC-293
 Component
Compressor
 Fluid
TULCO LUBSOIL LPG WS 150 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO60002110	TO60001956	TO60001938
Sample Date		Client Info		05 Feb 2024	05 Jan 2024	02 Dec 2023
Machine Age	hrs	Client Info		6123	5809	5811
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	0	<1	0
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	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	0
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	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

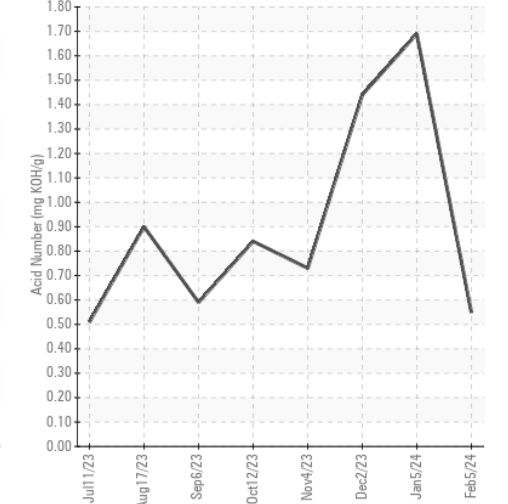
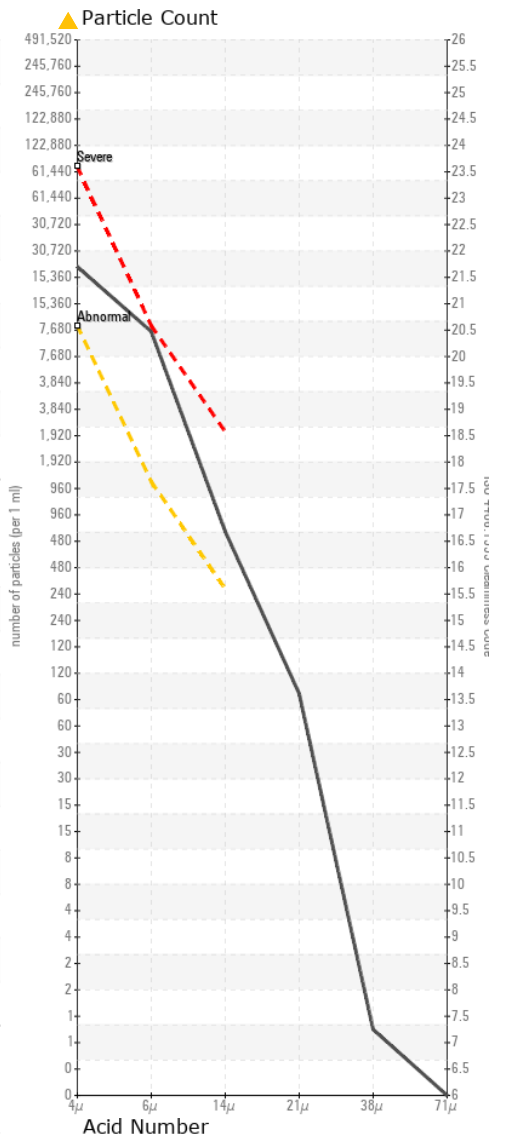
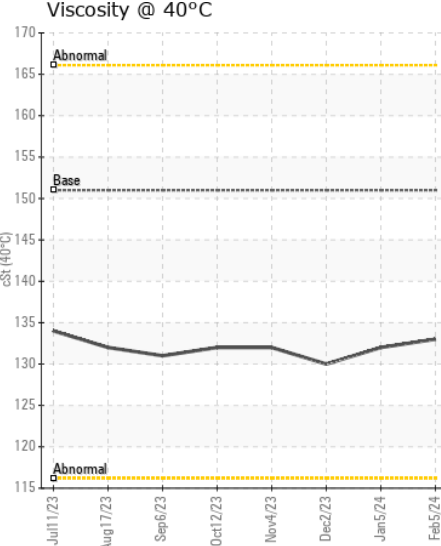
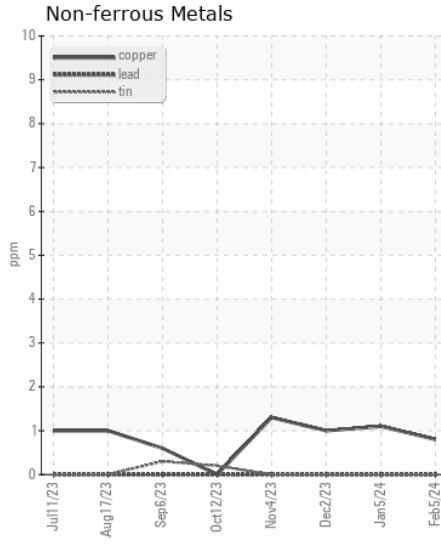
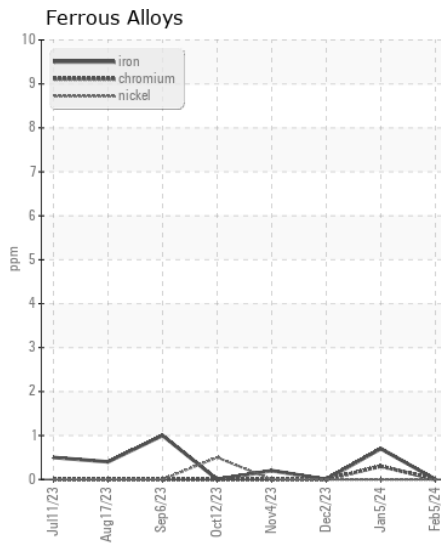
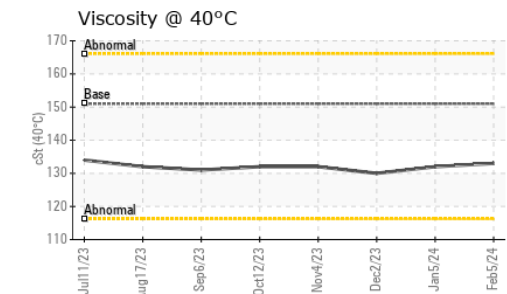
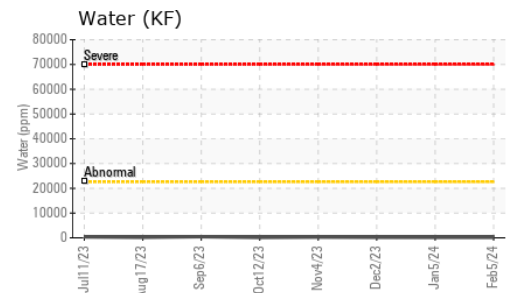
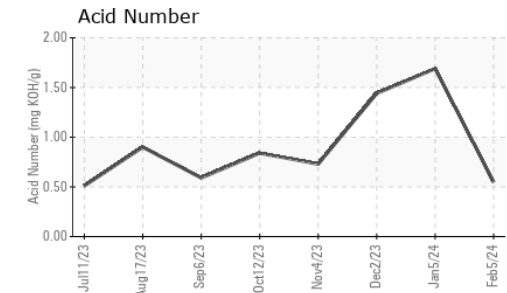
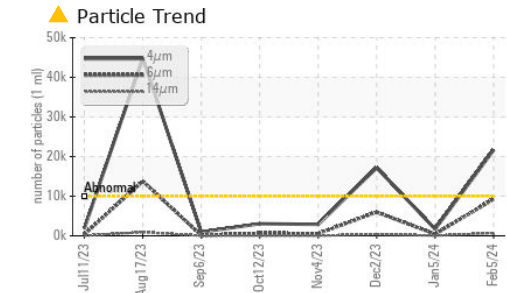
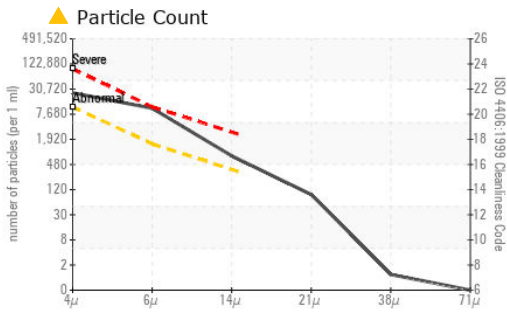
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	1	<1	2
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water	%	ASTM D6304	>2.26	0.010	0.011	0.016
ppm Water	ppm	ASTM D6304	>22600	108	111	162
Particles >4µm		ASTM D7647	>10000	▲ 21658	1678	▲ 17180
Particles >6µm		ASTM D7647	>1300	▲ 9261	450	▲ 5979
Particles >14µm		ASTM D7647	>320	▲ 677	46	▲ 371
Particles >21µm		ASTM D7647	>80	▲ 81	15	51
Particles >38µm		ASTM D7647	>20	1	0	1
Particles >71µm		ASTM D7647	>4	0	0	1
Oil Cleanliness		ISO 4406 (c)	>20/17/15	▲ 22/20/17	18/16/13	▲ 21/20/16
Silt	scalar	*Visual	NONE	LIGHT	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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		1	0	2
Boron	ppm	ASTM D5185m	0	90	121	111
Barium	ppm	ASTM D5185m	0	0	3	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	0	8	9	9
Calcium	ppm	ASTM D5185m	0	1220	1217	1284
Phosphorus	ppm	ASTM D5185m	0	277	306	282
Zinc	ppm	ASTM D5185m	0	298	261	287
Sulfur	ppm	ASTM D5185m	0	1381	1281	1176
Acid Number (AN)	mg KOH/g	ASTM D8045		0.549	1.69	1.44
Visc @ 40°C	cSt	ASTM D445	151	133	132	130
Visc @ 100°C	cSt	ASTM D445	28	13.4	13.4	13.3
Viscosity Index (VI)	Scale	ASTM D2270	224	▲ 94	95	96



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002110 **Received** : 13 Feb 2024
Lab Number : 06087281 **Tested** : 14 Feb 2024
Unique Number : 10874726 **Diagnosed** : 14 Feb 2024 - 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)