



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
MRC-323
 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		TO60002160	TO60001983	TO60001931
Sample Date		Client Info		05 Feb 2024	10 Jan 2024	02 Dec 2023
Machine Age	hrs	Client Info		5064	4312	3796
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				ABNORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<1	1	<1
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	<1
Lead	ppm	ASTM D5185m	>25	0	<1	<1
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

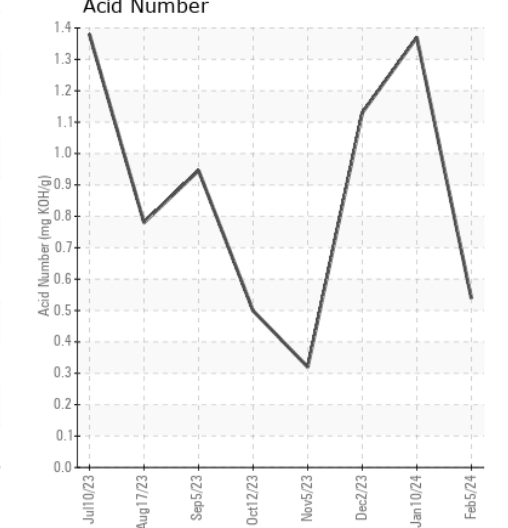
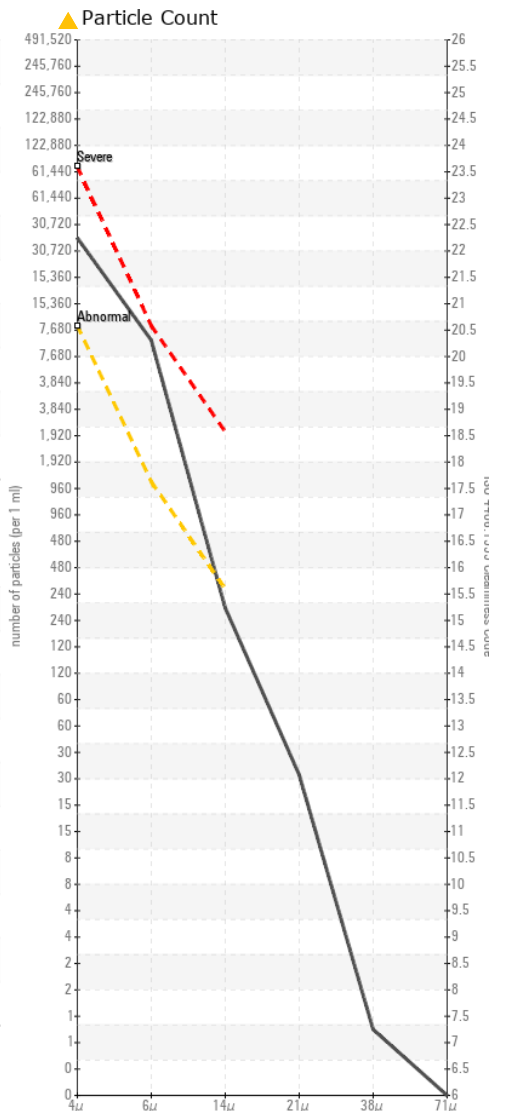
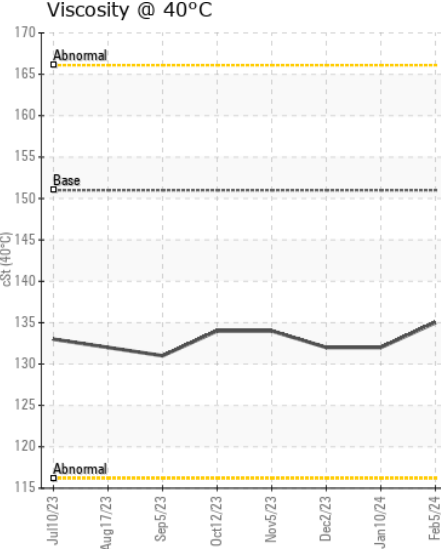
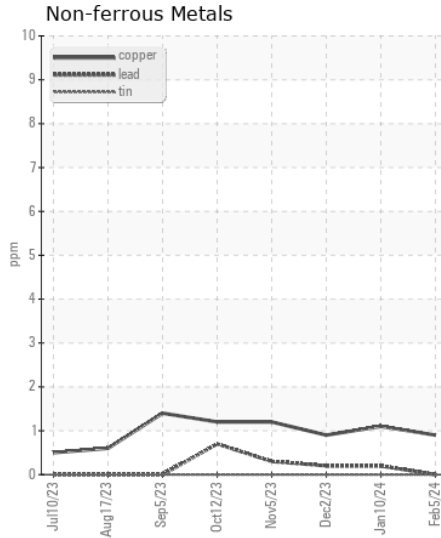
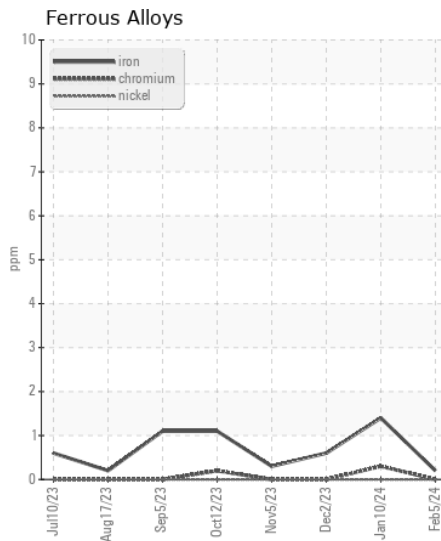
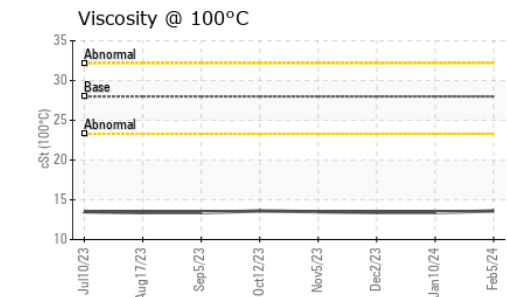
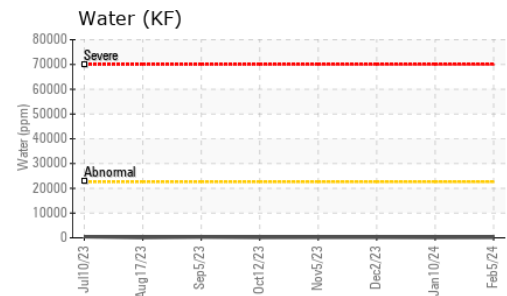
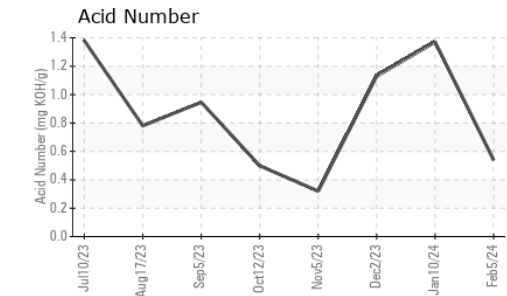
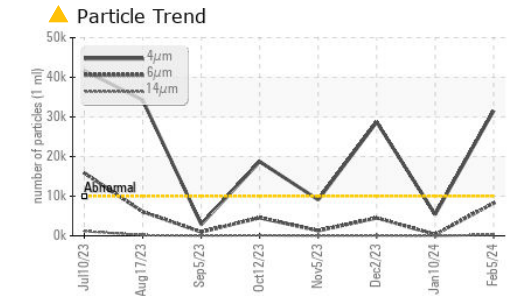
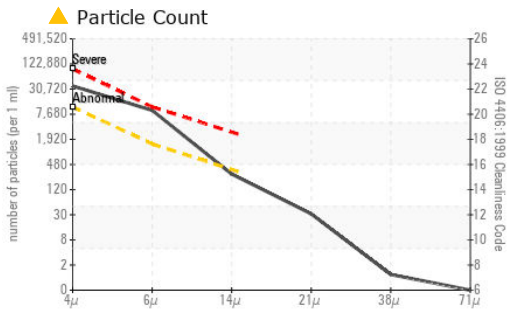
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	2	11	▲ 29
Potassium	ppm	ASTM D5185m	>20	1	3	0
Water	%	ASTM D6304	>2.26	0.010	0.004	0.014
ppm Water	ppm	ASTM D6304	>22600	106	45	149
Particles >4µm		ASTM D7647	>10000	▲ 31570	5406	▲ 28693
Particles >6µm		ASTM D7647	>1300	▲ 8265	356	▲ 4518
Particles >14µm		ASTM D7647	>320	▲ 249	13	52
Particles >21µm		ASTM D7647	>80	▲ 28	4	5
Particles >38µm		ASTM D7647	>20	1	1	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/17/15	▲ 22/20/15	20/16/11	▲ 22/19/13
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	>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		3	0	10
Boron	ppm	ASTM D5185m	0	63	85	85
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	6	6	7
Calcium	ppm	ASTM D5185m	0	1208	1213	1313
Phosphorus	ppm	ASTM D5185m	0	284	317	302
Zinc	ppm	ASTM D5185m	0	308	287	303
Sulfur	ppm	ASTM D5185m	0	3133	2751	2010
Acid Number (AN)	mg KOH/g	ASTM D8045		0.539	1.37	1.13
Visc @ 40°C	cSt	ASTM D445	151	135	132	132
Visc @ 100°C	cSt	ASTM D445	28	13.6	13.4	13.4
Viscosity Index (VI)	Scale	ASTM D2270	224	95	95	95



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002160 **Received** : 13 Feb 2024
Lab Number : 06087269 **Tested** : 14 Feb 2024
Unique Number : 10874714 **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)