



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
MRC-323
 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		TO60001983	TO60001931	TO60001749
Sample Date		Client Info		10 Jan 2024	02 Dec 2023	05 Nov 2023
Machine Age	hrs	Client Info		4312	3796	4007
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				NORMAL	ABNORMAL	NORMAL

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		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	<1
Lead	ppm	ASTM D5185m	>25	<1	<1	<1
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

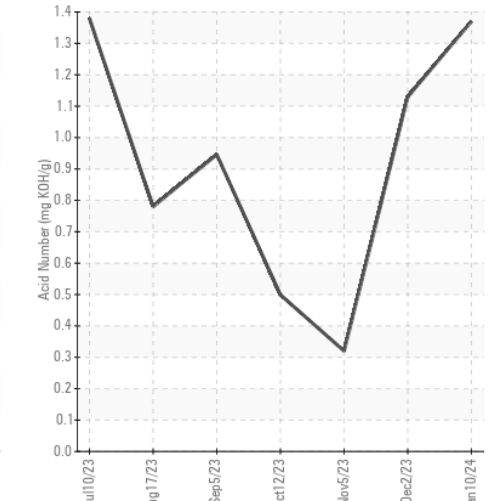
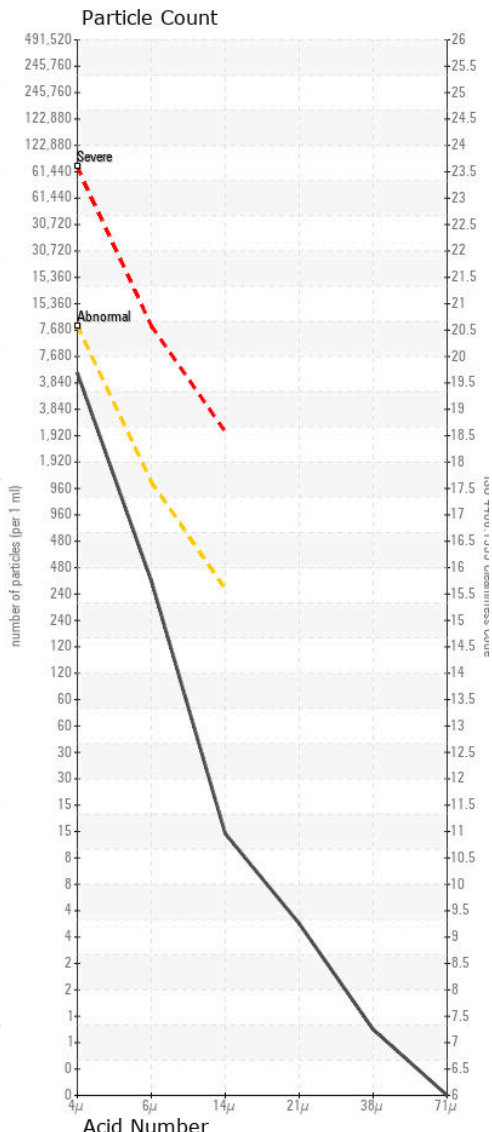
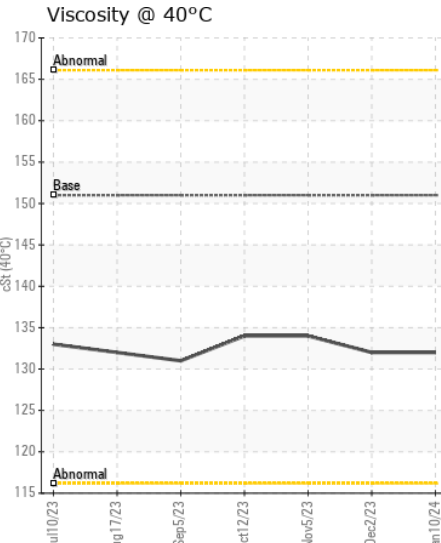
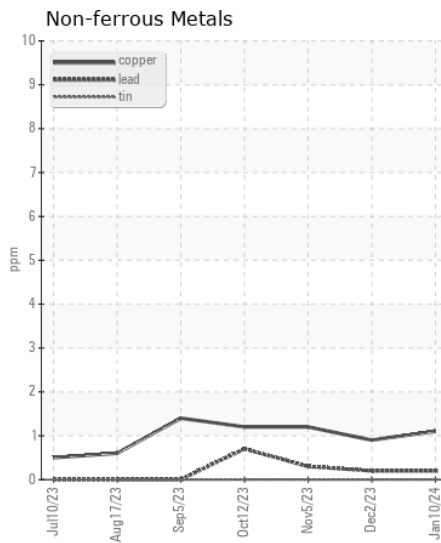
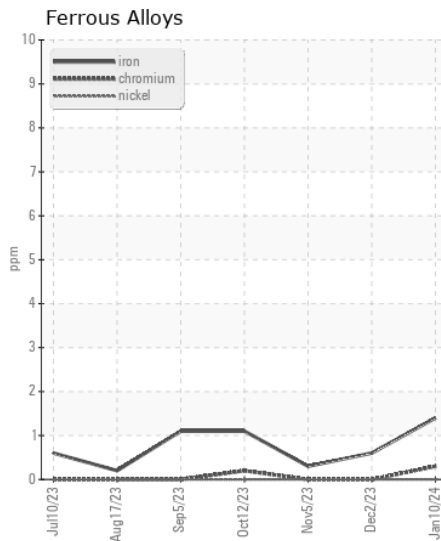
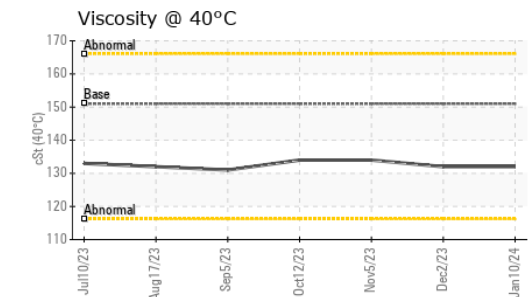
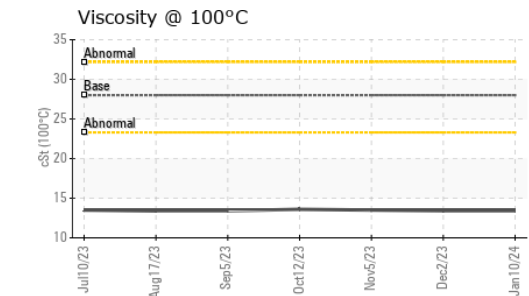
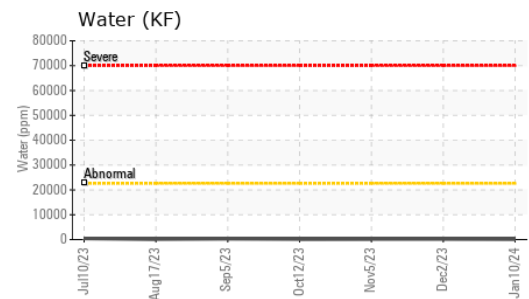
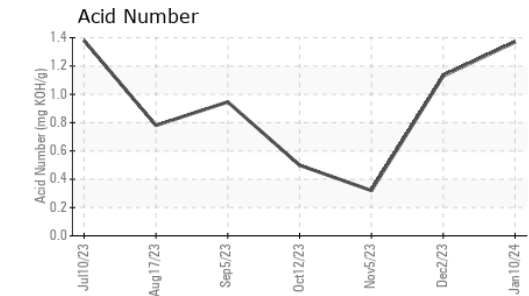
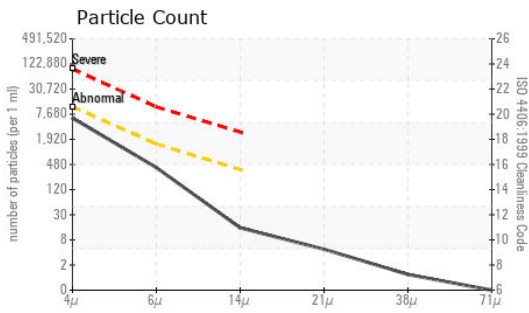
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	11	▲ 29	13
Potassium	ppm	ASTM D5185m	>20	3	0	2
Water	%	ASTM D6304	>2.26	0.004	0.014	0.014
ppm Water	ppm	ASTM D6304	>22600	45	149	149.4
Particles >4µm		ASTM D7647	>10000	5406	▲ 28693	9097
Particles >6µm		ASTM D7647	>1300	356	▲ 4518	1297
Particles >14µm		ASTM D7647	>320	13	52	37
Particles >21µm		ASTM D7647	>80	4	5	7
Particles >38µm		ASTM D7647	>20	1	0	1
Particles >71µm		ASTM D7647	>4	0	0	1
Oil Cleanliness		ISO 4406 (c)	>20/17/15	20/16/11	▲ 22/19/13	20/17/12
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	5
Boron	ppm	ASTM D5185m	0	85	85	81
Barium	ppm	ASTM D5185m	0	3	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	0	6	7	7
Calcium	ppm	ASTM D5185m	0	1213	1313	1301
Phosphorus	ppm	ASTM D5185m	0	317	302	310
Zinc	ppm	ASTM D5185m	0	287	303	342
Sulfur	ppm	ASTM D5185m	0	2751	2010	2148
Acid Number (AN)	mg KOH/g	ASTM D8045		1.37	1.13	0.32
Visc @ 40°C	cSt	ASTM D445	151	132	132	134
Visc @ 100°C	cSt	ASTM D445	28	13.4	13.4	13.5
Viscosity Index (VI)	Scale	ASTM D2270	224	95	95	95



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60001983 **Received** : 17 Jan 2024
Lab Number : 06063647 **Diagnosed** : 19 Jan 2024
Unique Number : 10835029 **Diagnostician** : Don Baldrige
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

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)

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