



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
MRC-293
 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		TO60001956	TO60001938	TO60001724
Sample Date		Client Info		05 Jan 2024	02 Dec 2023	04 Nov 2023
Machine Age	hrs	Client Info		5809	5811	5803
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changed	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	0	<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	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

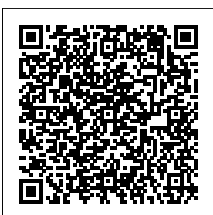
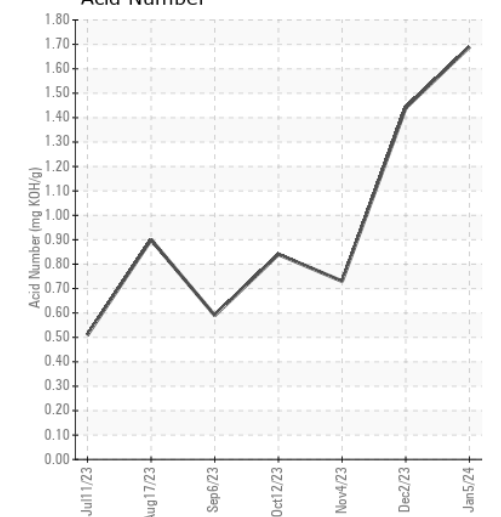
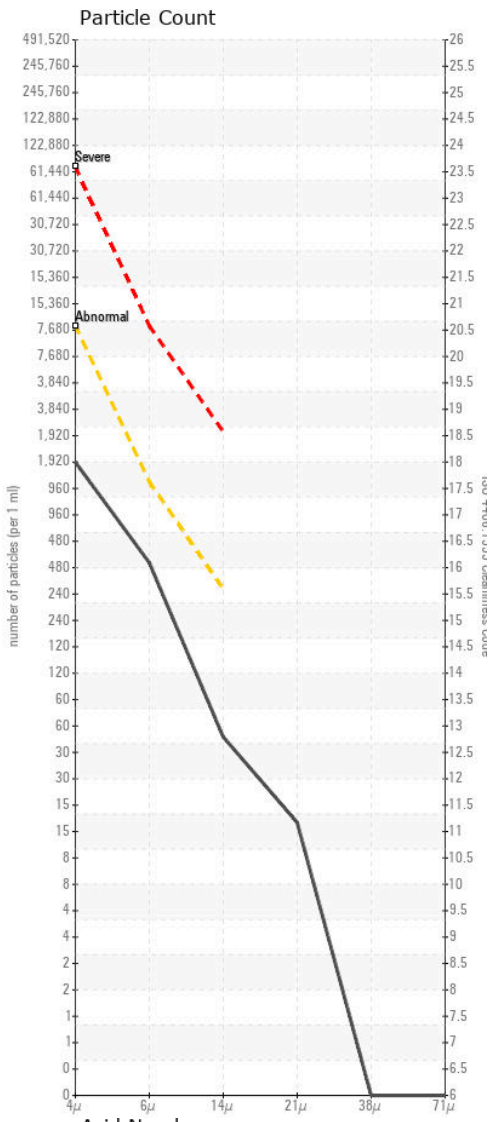
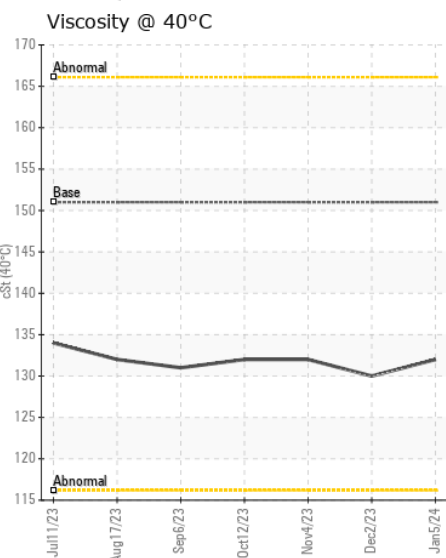
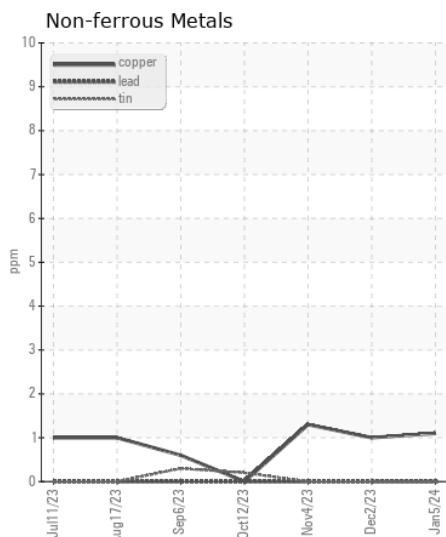
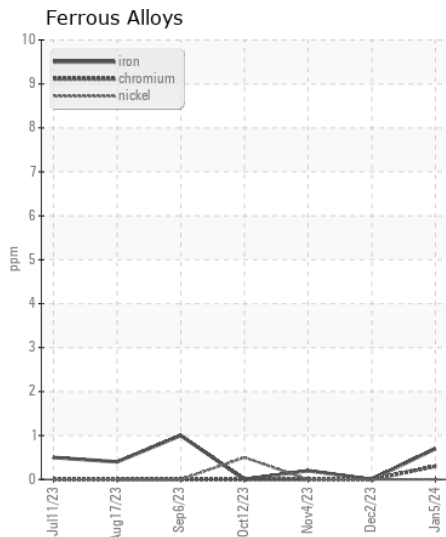
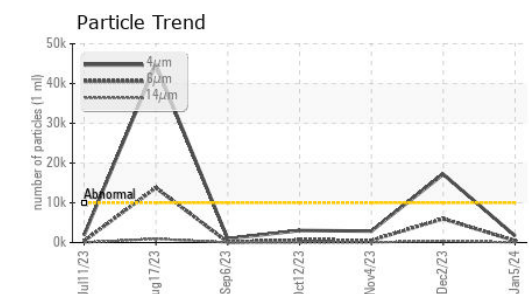
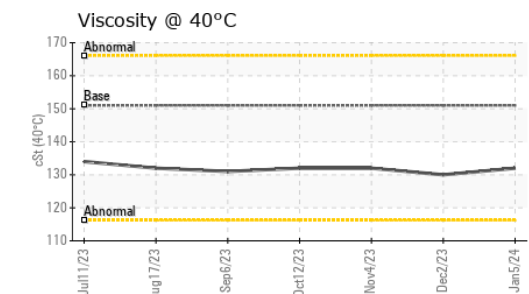
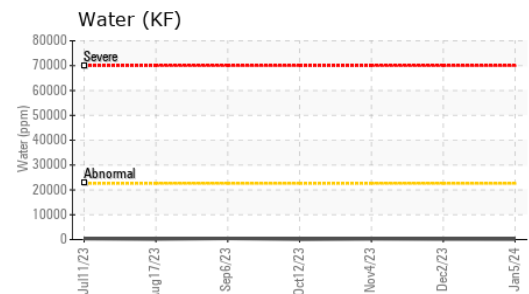
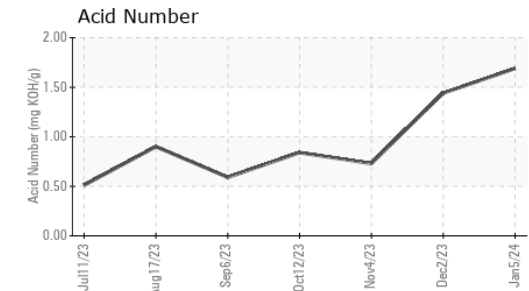
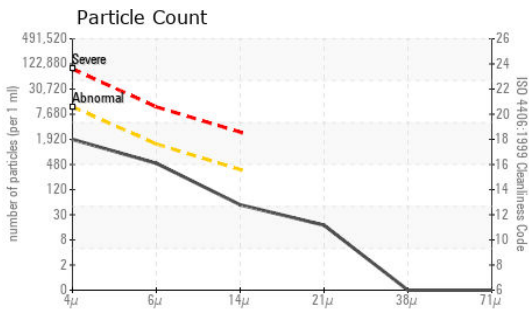
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	<1	2	2
Potassium	ppm	ASTM D5185m	>20	2	0	1
Water	%	ASTM D6304	>2.26	0.011	0.016	0.027
ppm Water	ppm	ASTM D6304	>22600	111	162	272.2
Particles >4µm		ASTM D7647	>10000	1678	▲ 17180	2884
Particles >6µm		ASTM D7647	>1300	450	▲ 5979	554
Particles >14µm		ASTM D7647	>320	46	▲ 371	27
Particles >21µm		ASTM D7647	>80	15	51	5
Particles >38µm		ASTM D7647	>20	0	1	1
Particles >71µm		ASTM D7647	>4	0	1	0
Oil Cleanliness		ISO 4406 (c)	>20/17/15	18/16/13	▲ 21/20/16	19/16/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	2	2
Boron	ppm	ASTM D5185m	0	121	111	106
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	9	9	11
Calcium	ppm	ASTM D5185m	0	1217	1284	1289
Phosphorus	ppm	ASTM D5185m	0	306	282	283
Zinc	ppm	ASTM D5185m	0	261	287	322
Sulfur	ppm	ASTM D5185m	0	1281	1176	1246
Acid Number (AN)	mg KOH/g	ASTM D8045		1.69	1.44	0.73
Visc @ 40°C	cSt	ASTM D445	151	132	130	132
Visc @ 100°C	cSt	ASTM D445	28	13.4	13.3	13.3
Viscosity Index (VI)	Scale	ASTM D2270	224	95	96	94



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60001956 **Received** : 17 Jan 2024
Lab Number : 06063637 **Diagnosed** : 19 Jan 2024
Unique Number : 10835019 **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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