



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**MRC-351**  
 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		<b>TO60001992</b>	TO60001918	TO60001708
Sample Date		Client Info		<b>10 Jan 2024</b>	02 Dec 2023	05 Nov 2023
Machine Age	hrs	Client Info		<b>2196</b>	1144	707
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Filter Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	0
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m		<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	0	<1
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

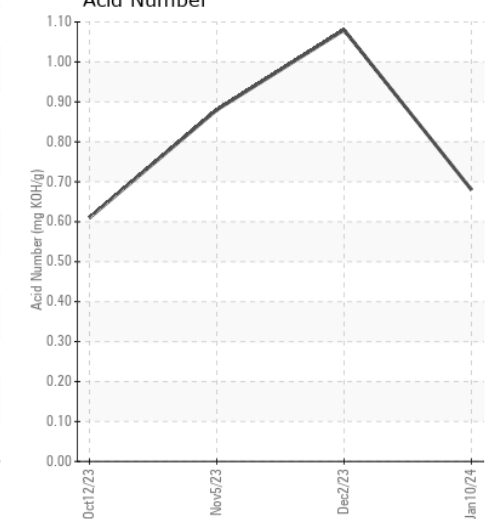
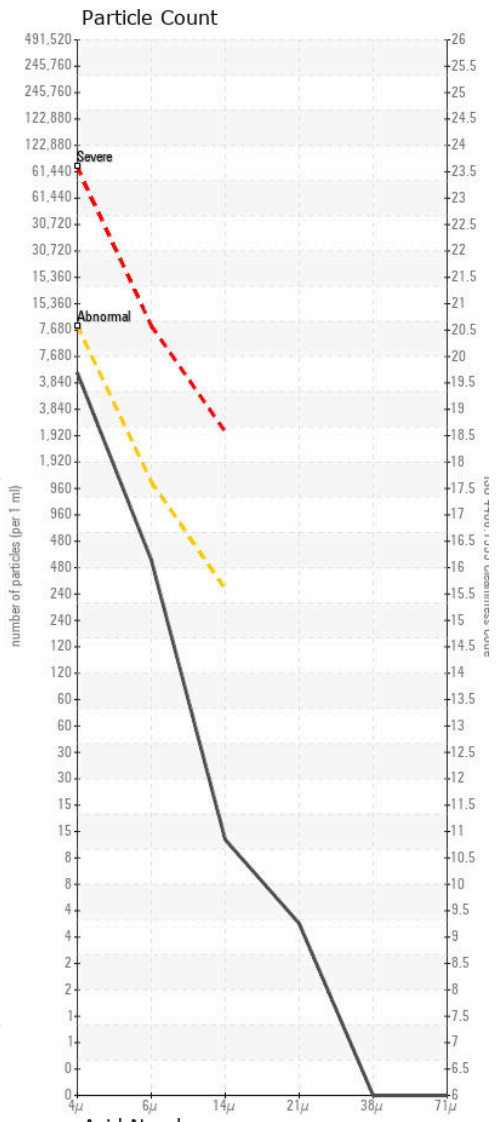
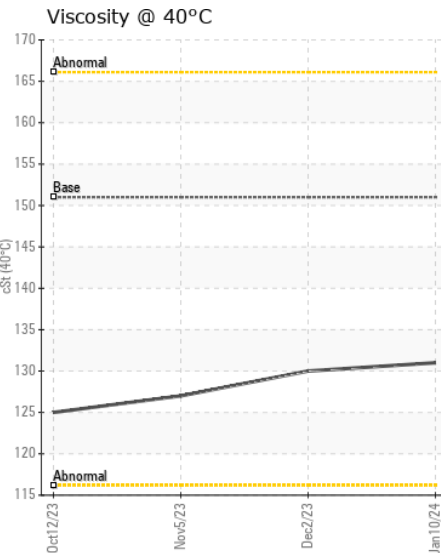
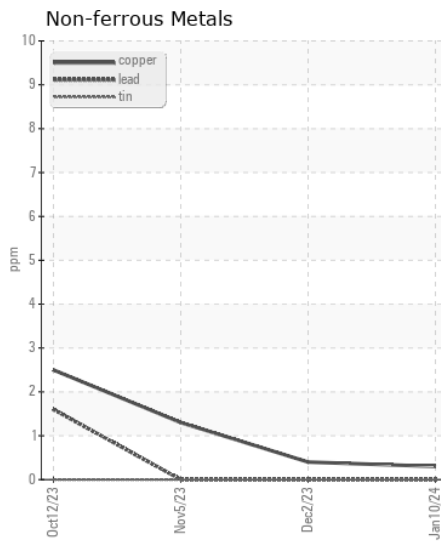
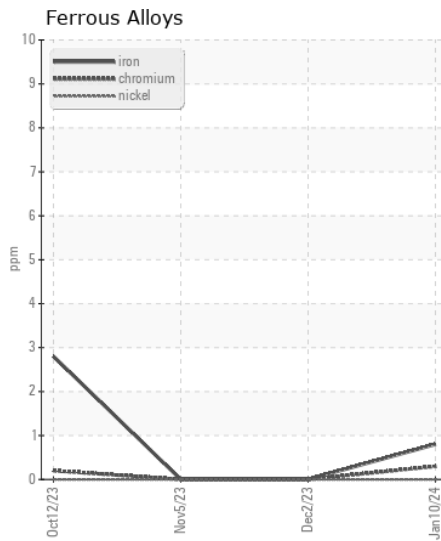
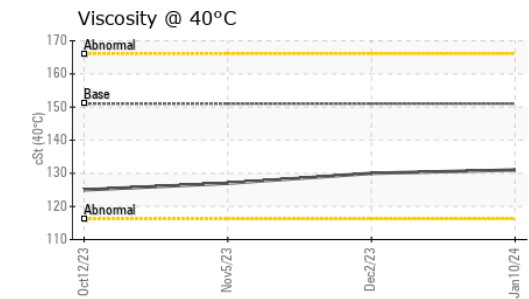
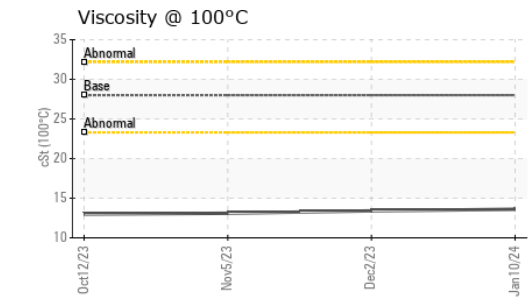
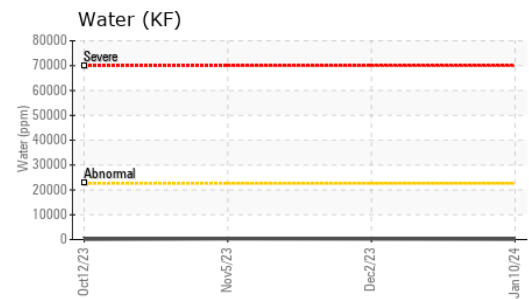
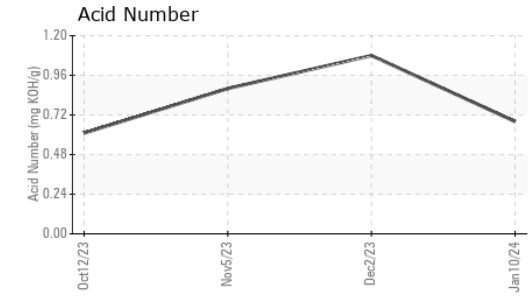
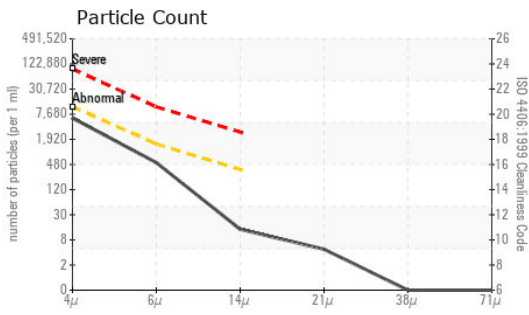
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	9	3
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	0	<1
Water	%	ASTM D6304	>2.26	<b>0.009</b>	0.023	0.032
ppm Water	ppm	ASTM D6304	>22600	<b>92</b>	236	324.7
Particles >4µm		ASTM D7647	>10000	<b>5406</b>	6851	▲ 14210
Particles >6µm		ASTM D7647	>1300	<b>467</b>	602	▲ 3351
Particles >14µm		ASTM D7647	>320	<b>12</b>	12	139
Particles >21µm		ASTM D7647	>80	<b>4</b>	2	21
Particles >38µm		ASTM D7647	>20	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>20/17/15	<b>20/16/11</b>	20/16/11	▲ 21/19/14
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>2.26	<b>NEG</b>	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		<b>0</b>	4	1
Boron	ppm	ASTM D5185m	0	<b>33</b>	65	125
Barium	ppm	ASTM D5185m	0	<b>3</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	0	<b>5</b>	7	10
Calcium	ppm	ASTM D5185m	0	<b>1228</b>	1281	1335
Phosphorus	ppm	ASTM D5185m	0	<b>333</b>	295	296
Zinc	ppm	ASTM D5185m	0	<b>288</b>	298	336
Sulfur	ppm	ASTM D5185m	0	<b>4970</b>	3449	1505
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.68</b>	1.08	0.88
Visc @ 40°C	cSt	ASTM D445	151	<b>131</b>	130	127
Visc @ 100°C	cSt	ASTM D445	28	<b>13.6</b>	13.4	13.1
Viscosity Index (VI)	Scale	ASTM D2270	224	<b>98</b>	97	97



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO60001992 **Received** : 17 Jan 2024  
**Lab Number** : 06063648 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10835030 **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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