



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**MRC-319**  
 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>TO60002147</b>	TO60001966	TO60001927
Sample Date		Client Info		<b>05 Feb 2024</b>	10 Jan 2024	02 Dec 2023
Machine Age	hrs	Client Info		<b>4662</b>	4117	3602
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>	N/A	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	Not Changd
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

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

## CONTAMINATION

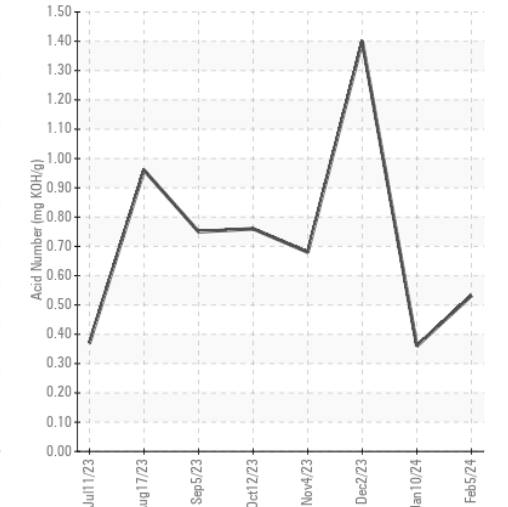
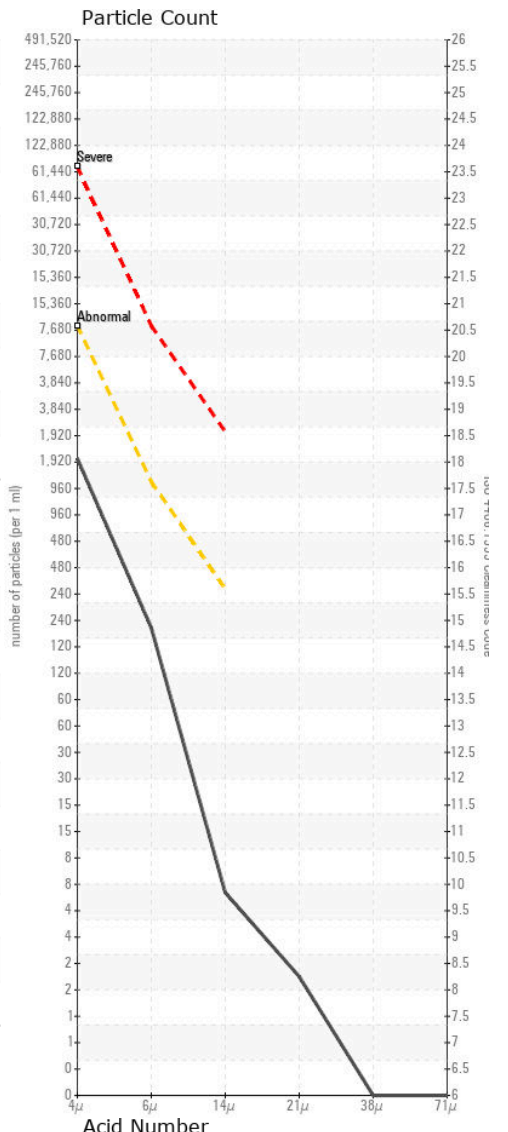
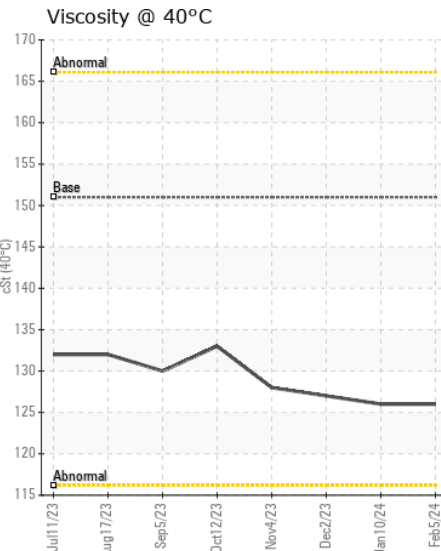
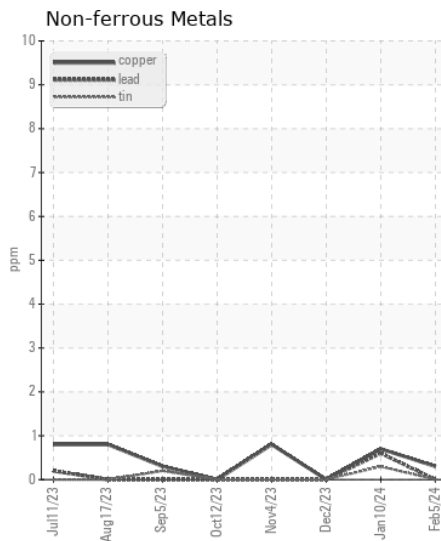
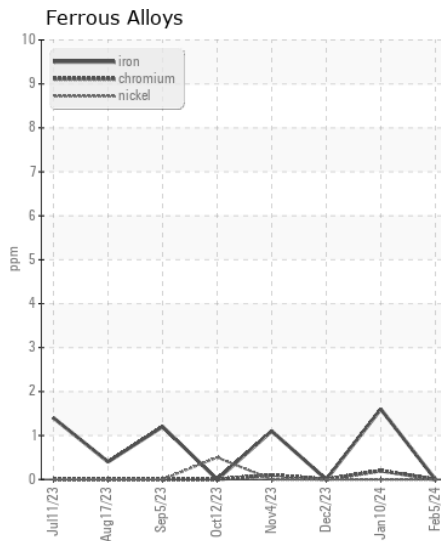
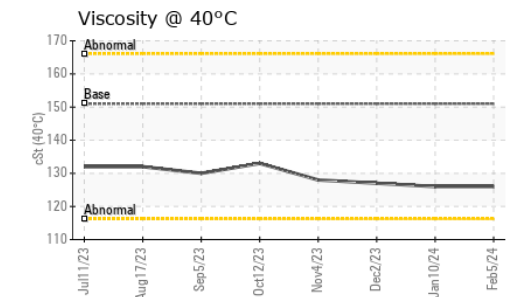
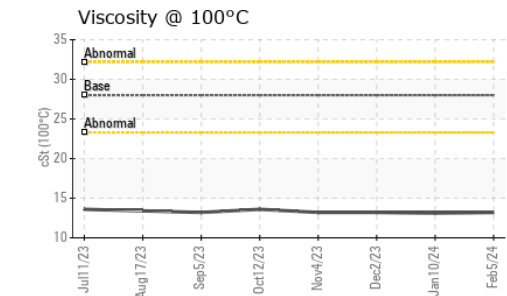
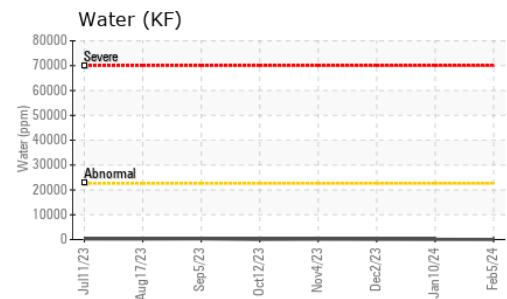
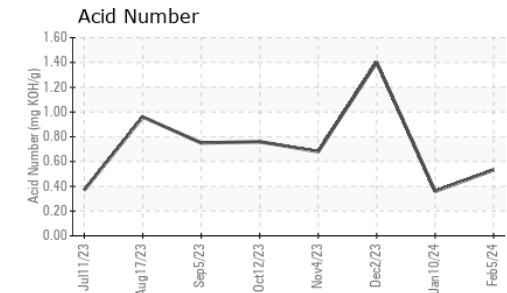
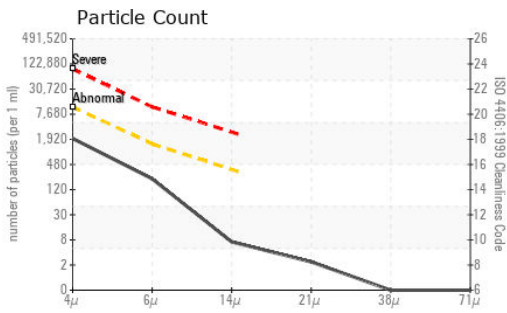
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	▲ 30	4
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	2
Water	%	ASTM D6304	>2.26	<b>0.00</b>	0.004	0.009
ppm Water	ppm	ASTM D6304	>22600	<b>0</b>	48	100
Particles >4µm		ASTM D7647	>10000	<b>1764</b>	▲ 12324	2154
Particles >6µm		ASTM D7647	>1300	<b>192</b>	734	633
Particles >14µm		ASTM D7647	>320	<b>6</b>	18	24
Particles >21µm		ASTM D7647	>80	<b>2</b>	5	4
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>18/15/10</b>	▲ 21/17/11	18/16/12
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
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>2</b>	4	2
Boron	ppm	ASTM D5185m	0	<b>101</b>	104	105
Barium	ppm	ASTM D5185m	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	0	<b>7</b>	10	9
Calcium	ppm	ASTM D5185m	0	<b>1189</b>	1199	1227
Phosphorus	ppm	ASTM D5185m	0	<b>275</b>	317	270
Zinc	ppm	ASTM D5185m	0	<b>298</b>	280	300
Sulfur	ppm	ASTM D5185m	0	<b>3353</b>	2796	2571
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.532</b>	0.36	1.40
Visc @ 40°C	cSt	ASTM D445	151	<b>126</b>	126	127
Visc @ 100°C	cSt	ASTM D445	28	<b>13.2</b>	13.1	13.2
Viscosity Index (VI)	Scale	ASTM D2270	224	<b>98</b>	97	97



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO60002147 **Received** : 13 Feb 2024  
**Lab Number** : 06087276 **Tested** : 14 Feb 2024  
**Unique Number** : 10874721 **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)