



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**MRC-302**  
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>TO60002949</b>	TO60002732	TO60002544
Sample Date		Client Info		<b>10 Jul 2024</b>	31 May 2024	01 May 2024
Machine Age	hrs	Client Info		<b>5983</b>	5320	4938
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	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>2</b>	0	1
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	<1	1
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>6</b>	0	<1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
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

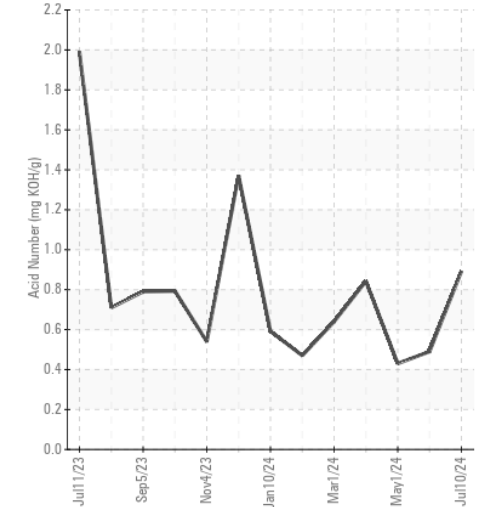
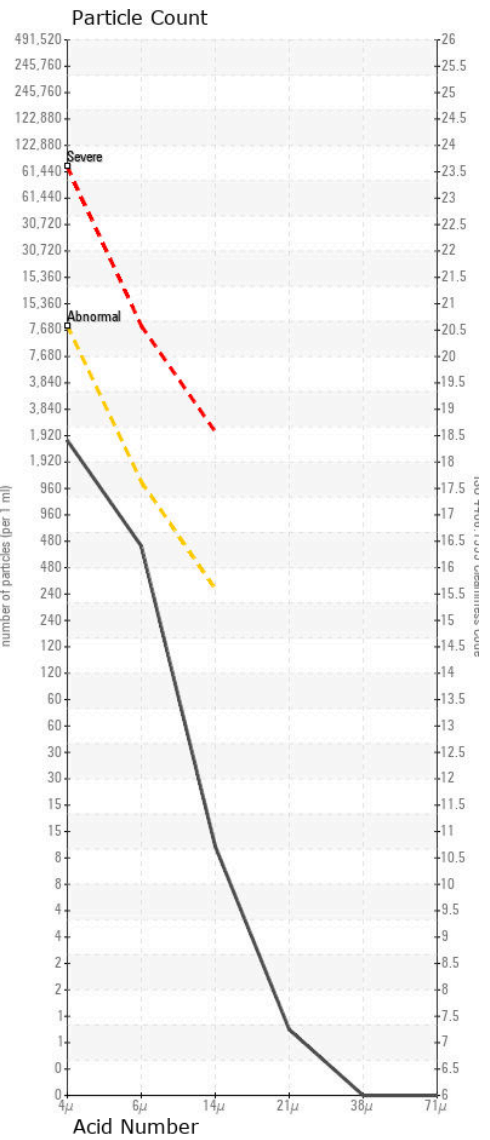
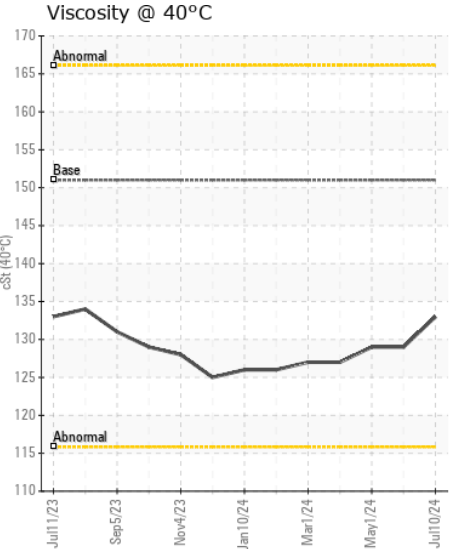
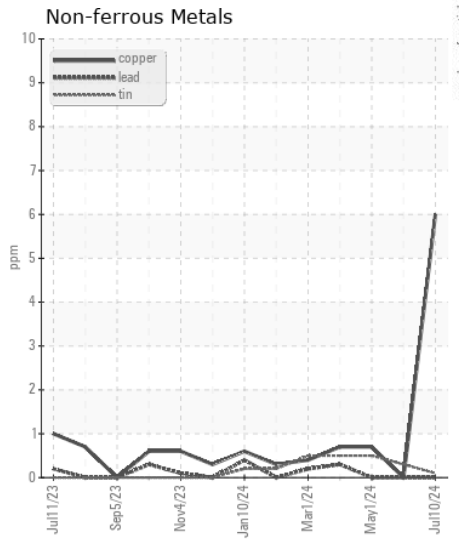
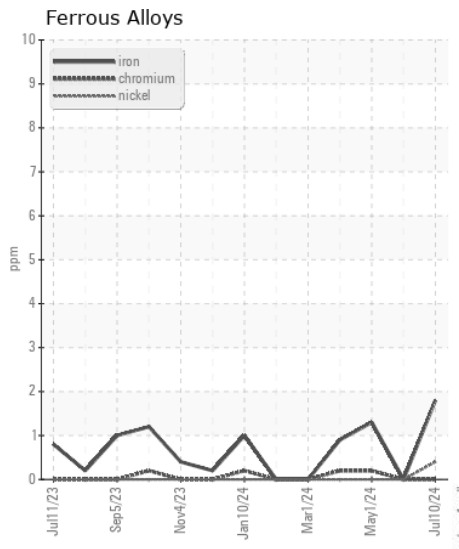
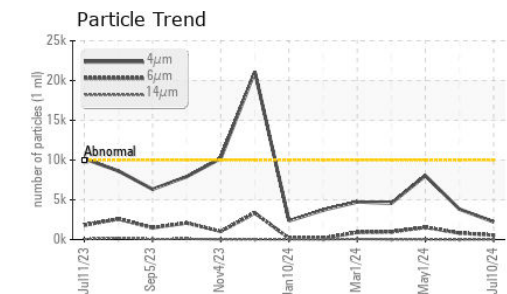
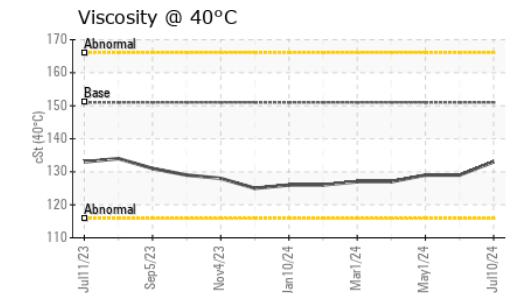
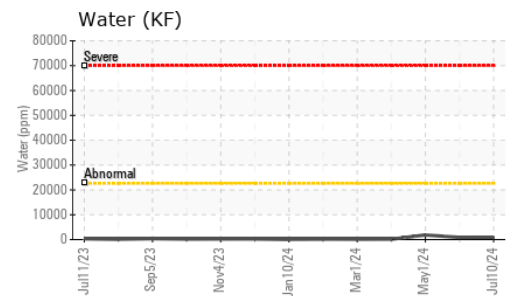
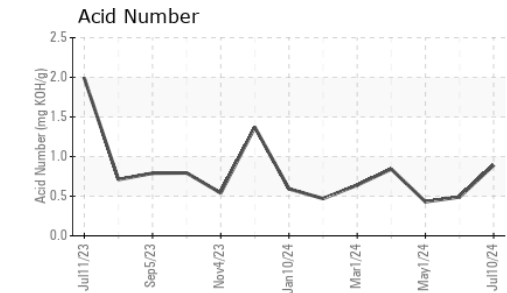
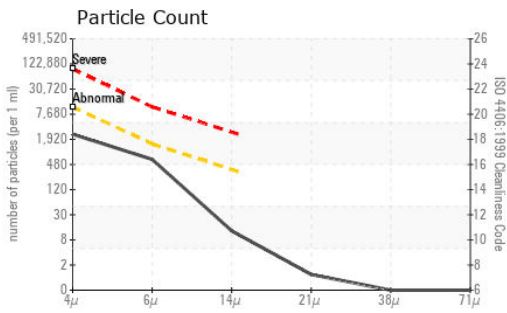
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>3</b>	9	4
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	4	4
Water	%	ASTM D6304	>2.26	<b>0.093</b>	0.088	0.187
ppm Water	ppm	ASTM D6304	>22600	<b>930</b>	880	1870
Particles >4µm		ASTM D7647	>10000	<b>2227</b>	3822	8031
Particles >6µm		ASTM D7647	>1300	<b>559</b>	806	1535
Particles >14µm		ASTM D7647	>320	<b>11</b>	7	25
Particles >21µm		ASTM D7647	>80	<b>1</b>	0	5
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>18/16/11</b>	19/17/10	20/18/12
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>9</b>	8	4
Boron	ppm	ASTM D5185m	0	<b>23</b>	57	64
Barium	ppm	ASTM D5185m	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	0
Magnesium	ppm	ASTM D5185m	0	<b>8</b>	9	7
Calcium	ppm	ASTM D5185m	0	<b>1255</b>	1286	1231
Phosphorus	ppm	ASTM D5185m	0	<b>308</b>	293	316
Zinc	ppm	ASTM D5185m	0	<b>328</b>	334	324
Sulfur	ppm	ASTM D5185m	0	<b>3623</b>	3994	3886
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.892</b>	0.49	0.43
Visc @ 40°C	cSt	ASTM D445	151	<b>133</b>	129	129
Visc @ 100°C	cSt	ASTM D445	28	<b>13.4</b>	13.7	13.3
Viscosity Index (VI)	Scale	ASTM D2270	224	<b>94</b>	102	97



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO60002949 **Received** : 16 Jul 2024  
**Lab Number** : 06238463 **Tested** : 18 Jul 2024  
**Unique Number** : 11127297 **Diagnosed** : 18 Jul 2024 - Doug Bogart  
**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)