



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id  
**5 (S/N 298)**  
 Component  
**Compressor**  
 Fluid  
**TULCO LUBSOIL LPG WS 150 (--- GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TO60002931</b>	TO60000985	---
Sample Date		Client Info		<b>11 Jul 2024</b>	05 May 2023	---
Machine Age	hrs	Client Info		<b>10990</b>	3367	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	Not Changd	---
Filter Changed		Client Info		<b>N/A</b>	Not Changd	---
Sample Status				<b>ATTENTION</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>2</b>	1	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	<1	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	1	---
Copper	ppm	ASTM D5185m	>50	<b>6</b>	0	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

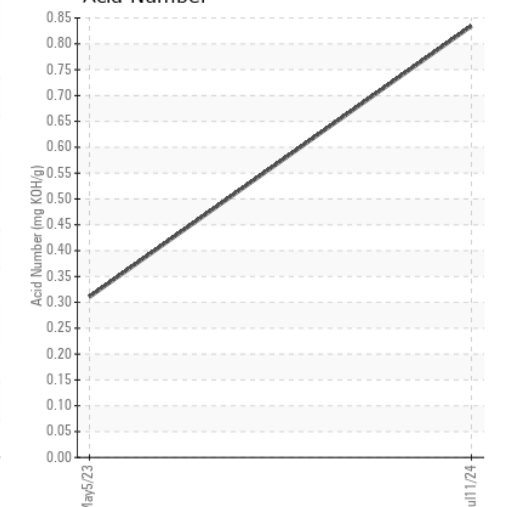
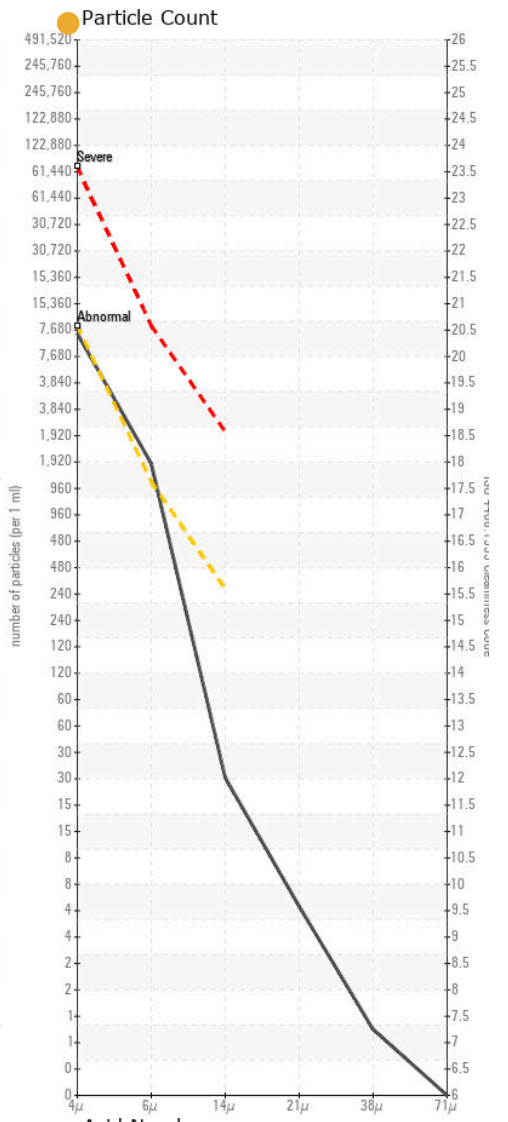
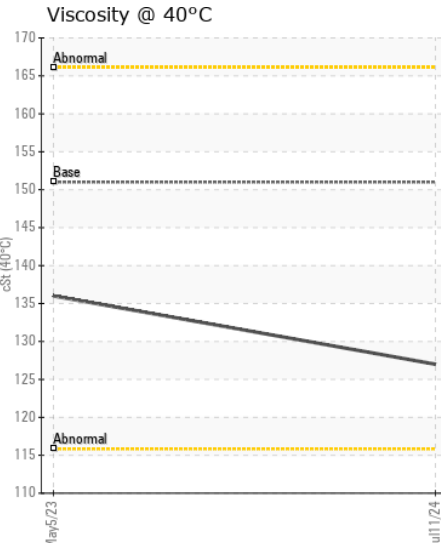
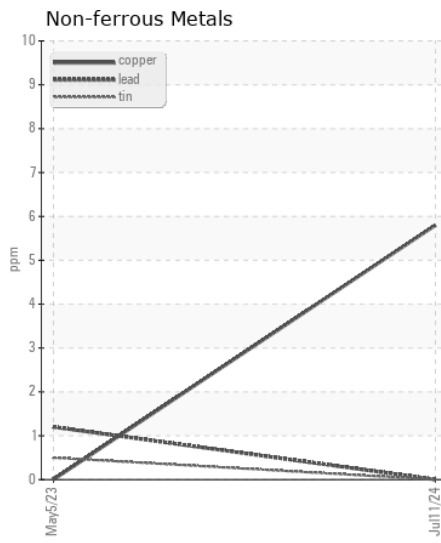
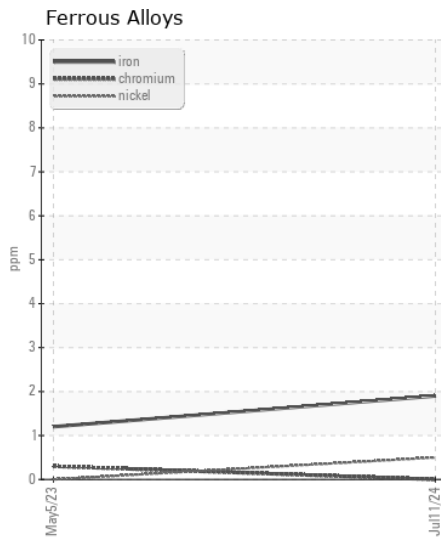
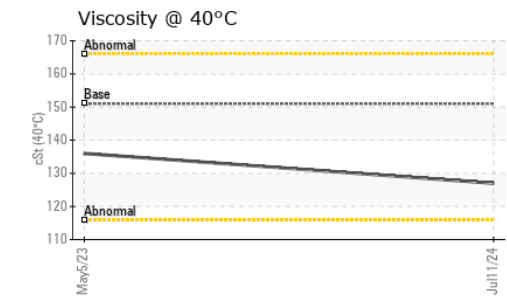
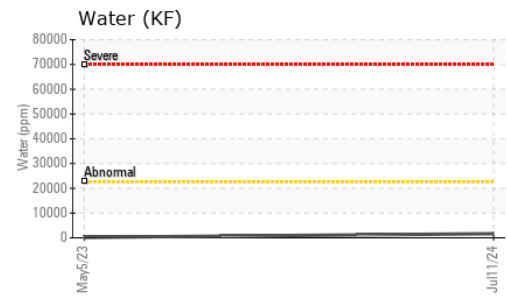
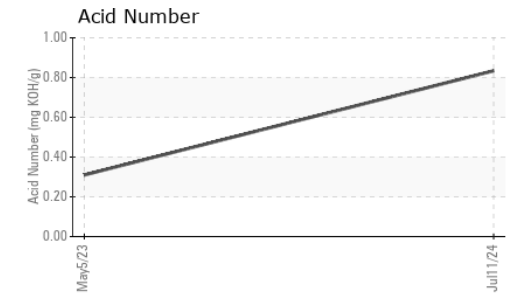
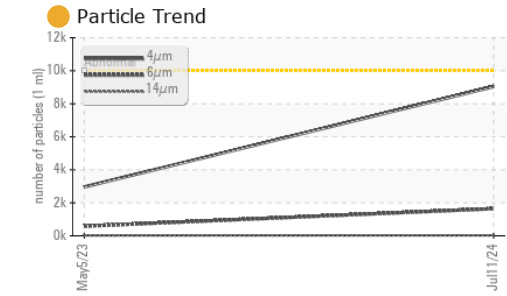
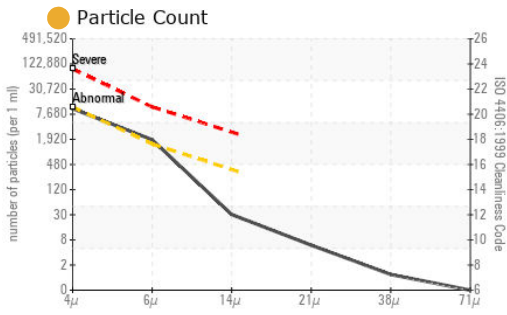
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>3</b>	3	---
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	3	---
Water	%	ASTM D6304	>2.26	<b>0.168</b>	0.018	---
ppm Water	ppm	ASTM D6304	>22600	<b>1680</b>	185.2	---
Particles >4µm		ASTM D7647	>10000	<b>9039</b>	2963	---
Particles >6µm		ASTM D7647	>1300	<b>1644</b>	584	---
Particles >14µm		ASTM D7647	>320	<b>27</b>	20	---
Particles >21µm		ASTM D7647	>80	<b>5</b>	2	---
Particles >38µm		ASTM D7647	>20	<b>1</b>	0	---
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>20/17/15	<b>20/18/12</b>	19/16/11	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>2.26	<b>NEG</b>	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>10</b>	4	---
Boron	ppm	ASTM D5185m	0	<b>3</b>	47	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	---
Magnesium	ppm	ASTM D5185m	0	<b>8</b>	19	---
Calcium	ppm	ASTM D5185m	0	<b>1252</b>	1366	---
Phosphorus	ppm	ASTM D5185m	0	<b>316</b>	306	---
Zinc	ppm	ASTM D5185m	0	<b>333</b>	332	---
Sulfur	ppm	ASTM D5185m	0	<b>3999</b>	2399	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.834</b>	0.31	---
Visc @ 40°C	cSt	ASTM D445	151	<b>127</b>	136	---
Visc @ 100°C	cSt	ASTM D445	28	<b>13.2</b>	13.6	---
Viscosity Index (VI)	Scale	ASTM D2270	224	<b>97</b>	94	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO60002931 **Received** : 16 Jul 2024  
**Lab Number** : 06238450 **Tested** : 18 Jul 2024  
**Unique Number** : 11127284 **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)