



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
4 (S/N 296)
 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		TO60002929	TO60000993	TO60000980
Sample Date		Client Info		11 Jul 2024	04 Jul 2023	05 May 2023
Machine Age	hrs	Client Info		9275	0	2257
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	2	2	1
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	2	<1
Lead	ppm	ASTM D5185m	>25	0	5	2
Copper	ppm	ASTM D5185m	>50	6	▲ 55	0
Tin	ppm	ASTM D5185m	>15	0	2	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

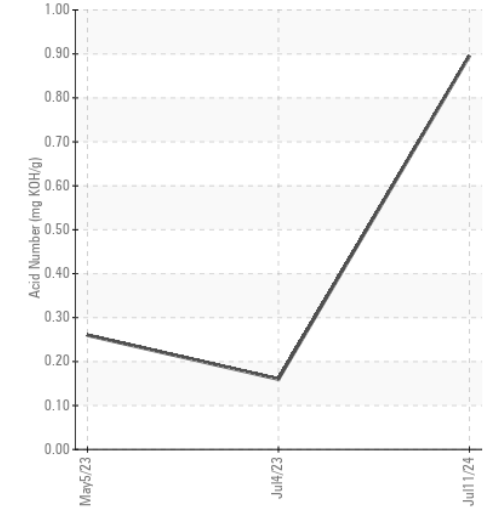
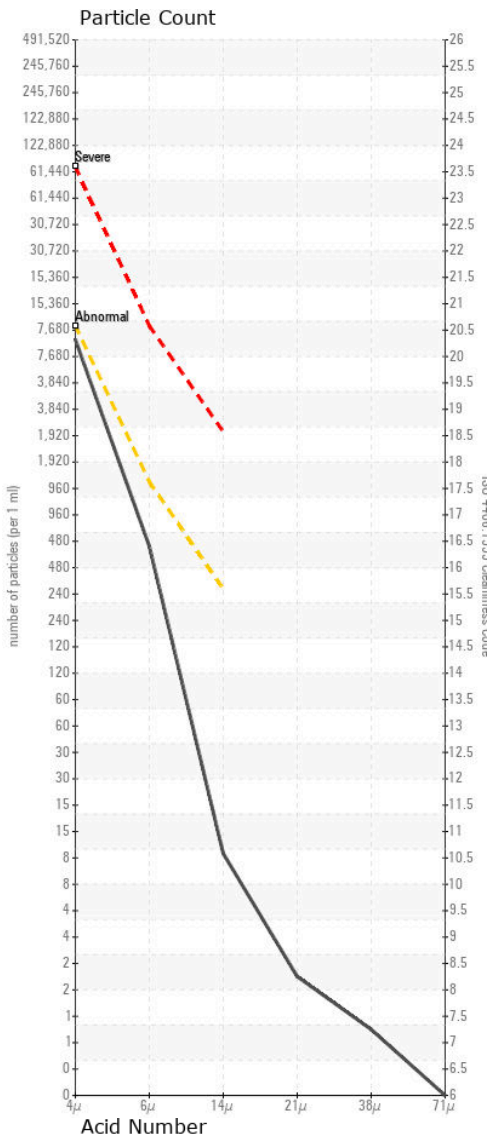
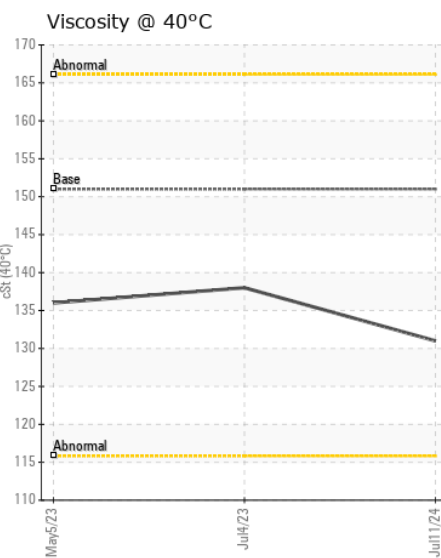
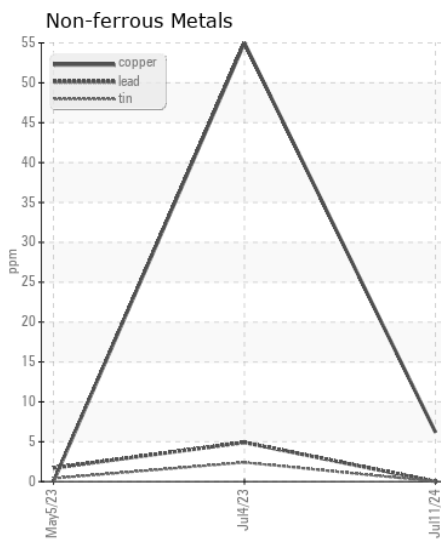
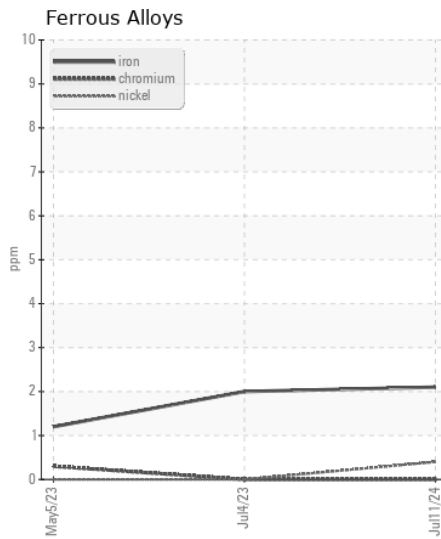
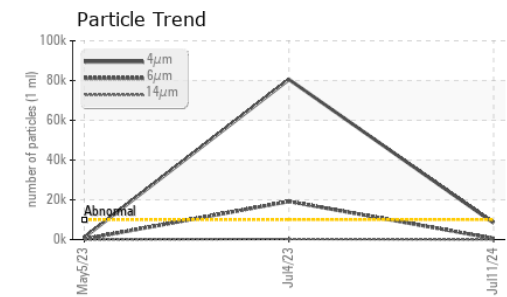
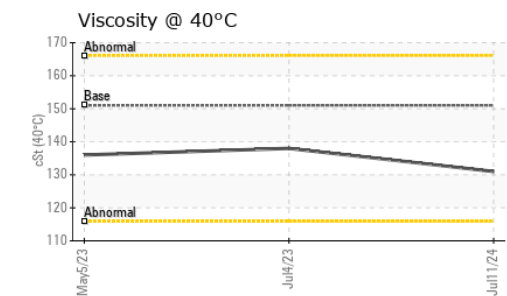
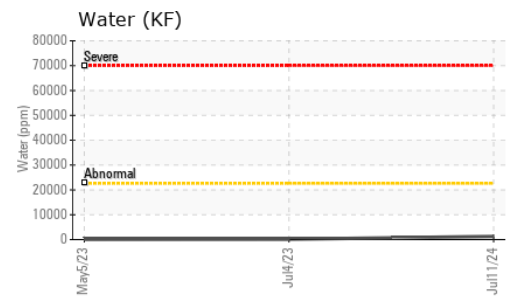
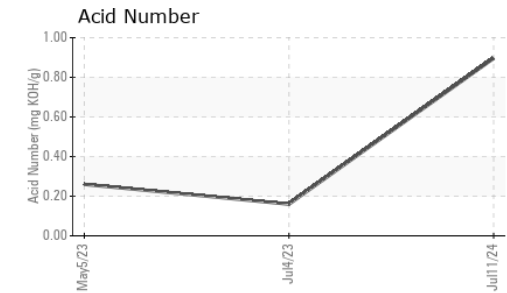
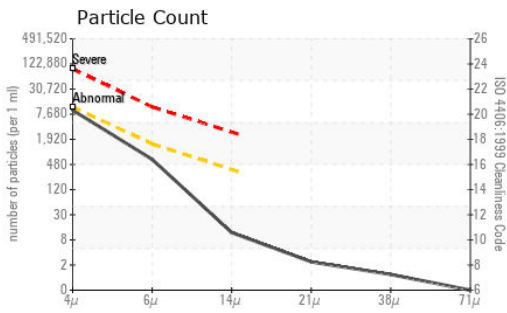
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	11	2	2
Potassium	ppm	ASTM D5185m	>20	5	1	3
Water	%	ASTM D6304	>2.26	0.129	0.013	0.009
ppm Water	ppm	ASTM D6304	>22600	1290	139.6	99.4
Particles >4µm		ASTM D7647	>10000	8350	▲ 80544	1147
Particles >6µm		ASTM D7647	>1300	559	▲ 19187	259
Particles >14µm		ASTM D7647	>320	10	285	18
Particles >21µm		ASTM D7647	>80	2	27	3
Particles >38µm		ASTM D7647	>20	1	1	1
Particles >71µm		ASTM D7647	>4	0	0	1
Oil Cleanliness		ISO 4406 (c)	>20/17/15	20/16/10	▲ 24/21/15	17/15/11
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		10	2	5
Boron	ppm	ASTM D5185m	0	7	69	38
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	2	<1
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	0	9	11	19
Calcium	ppm	ASTM D5185m	0	1248	1326	1383
Phosphorus	ppm	ASTM D5185m	0	314	305	316
Zinc	ppm	ASTM D5185m	0	328	368	338
Sulfur	ppm	ASTM D5185m	0	4115	2323	2597
Acid Number (AN)	mg KOH/g	ASTM D8045		0.896	0.16	0.26
Visc @ 40°C	cSt	ASTM D445	151	131	138	136
Visc @ 100°C	cSt	ASTM D445	28	13.7	13.3	13.7
Viscosity Index (VI)	Scale	ASTM D2270	224	100	89	96



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002929 **Received** : 16 Jul 2024
Lab Number : 06238449 **Tested** : 18 Jul 2024
Unique Number : 11127283 **Diagnosed** : 19 Jul 2024 - Jonathan Hester
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)