



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	SEVERE

Area
[TO10002649]
 Machine Id
SOUTH COMP 21000-50-02 (S/N 1106-5717)
 Component
Compressor
 Fluid
TULCO LUBSOIL SYNTHETIC COMPRESSOR 46 (--- GAL)

RECOMMENDATION

We advise that you check for a possible overheat condition. Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO10003287	TO10002649	TO10002529
Sample Date		Client Info		18 Jun 2024	19 Oct 2023	13 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	10	2	▲ 45
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>3	<1	<1	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	0
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	30	7	▲ 112
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

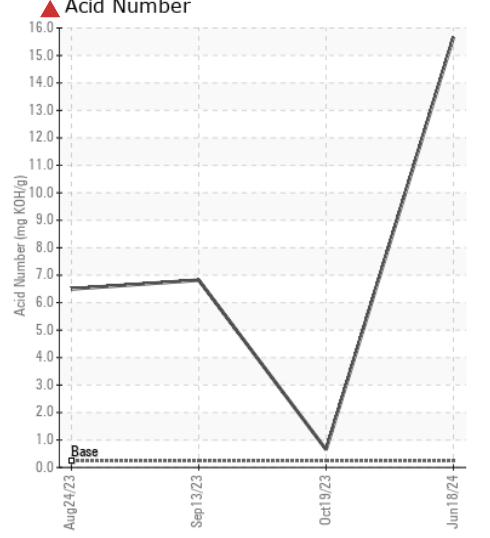
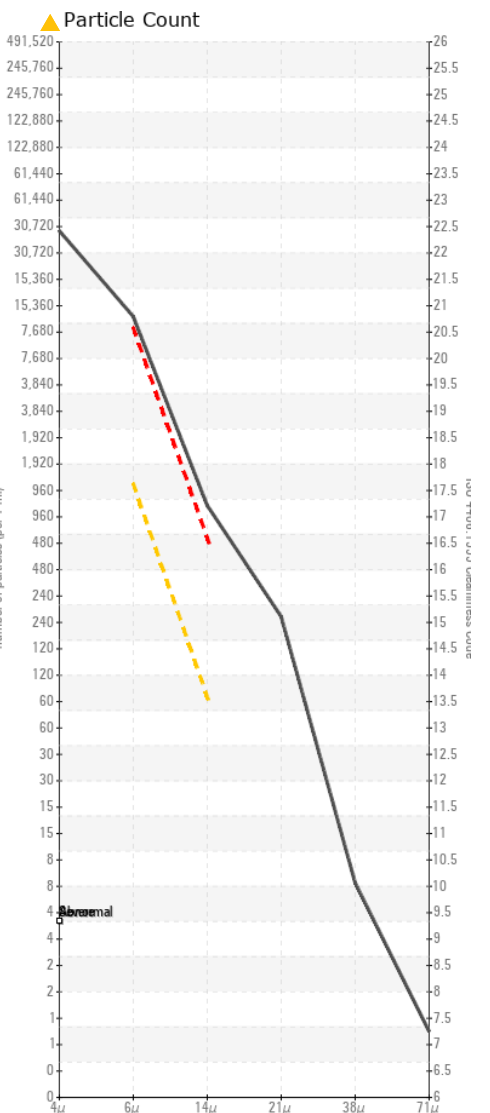
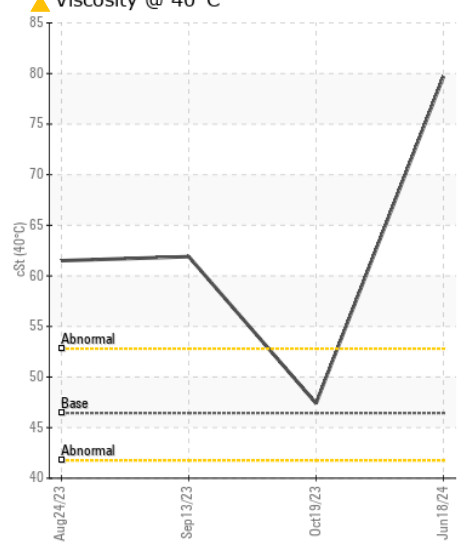
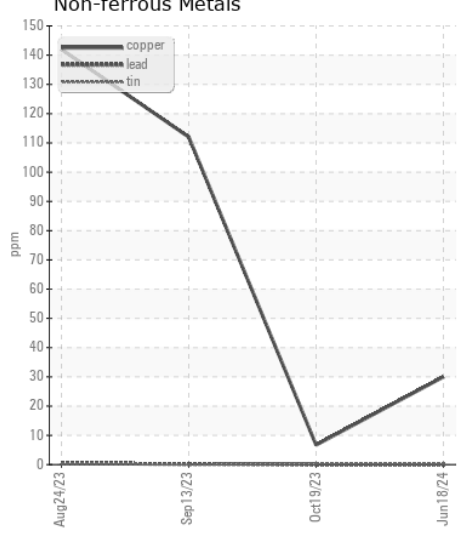
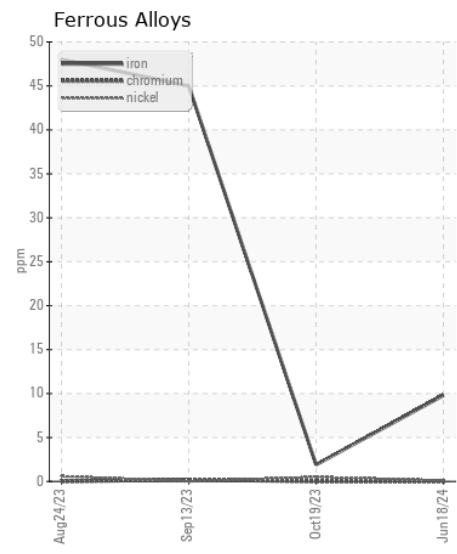
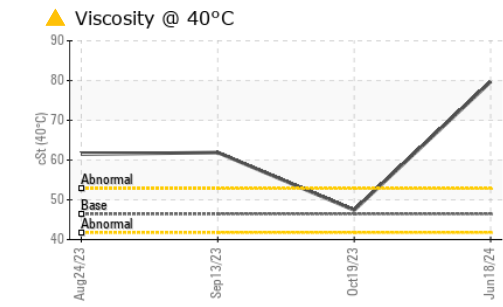
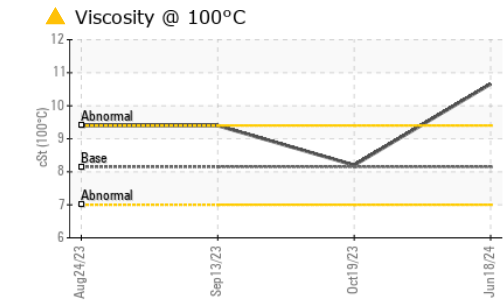
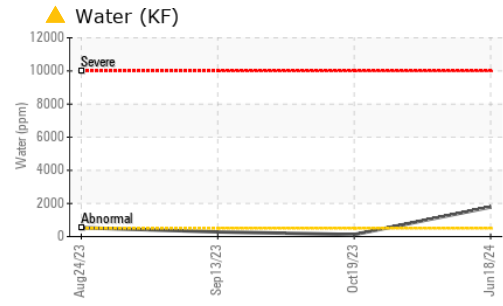
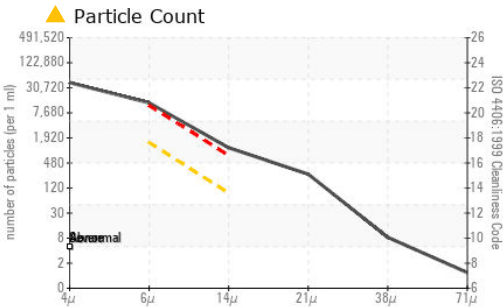
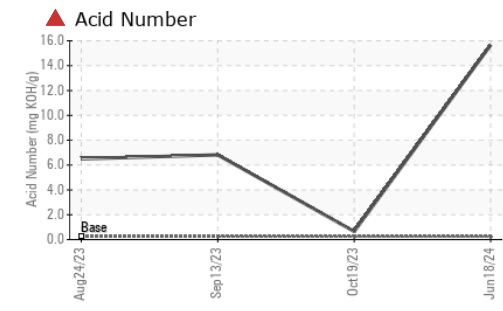
There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>25	0	<1	<1
Potassium	ppm	ASTM D5185m	>20	5	0	4
Water	%	ASTM D6304	>0.05	▲ 0.178	0.012	0.028
ppm Water	ppm	ASTM D6304	>500	▲ 1786	121.3	281.5
Particles >4µm		ASTM D7647		35540	6133	1765
Particles >6µm		ASTM D7647	>1300	▲ 11578	1080	452
Particles >14µm		ASTM D7647	>80	▲ 977	61	41
Particles >21µm		ASTM D7647	>20	▲ 228	17	9
Particles >38µm		ASTM D7647	>4	▲ 7	1	0
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	~-/17/13	▲ 22/21/17	20/17/13	18/16/13
Silt	scalar	*Visual	NONE	LIGHT	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	>0.05	NEG	NEG	NEG

FLUID CONDITION

The AN level is well above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable. The oil is no longer serviceable.

Sodium	ppm	ASTM D5185m		5	2	6
Boron	ppm	ASTM D5185m		10	0	<1
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		4	3	0
Calcium	ppm	ASTM D5185m		23	1	0
Phosphorus	ppm	ASTM D5185m	74	58	72	91
Zinc	ppm	ASTM D5185m		69	65	● 153
Sulfur	ppm	ASTM D5185m	1000	322	849	455
Acid Number (AN)	mg KOH/g	ASTM D8045	0.236	▲ 15.66	0.65	▲ 6.82
Visc @ 40°C	cSt	ASTM D445	46.44	▲ 79.69	47.4	▲ 61.9
Visc @ 100°C	cSt	ASTM D445	8.15	▲ 10.66	8.2	9.4
Viscosity Index (VI)	Scale	ASTM D2270	149	119	147	132



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10003287 **Received** : 20 Jun 2024
Lab Number : 06216231 **Tested** : 24 Jun 2024
Unique Number : 11089095 **Diagnosed** : 24 Jun 2024 - Jonathan Hester
Test Package : IND 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)