



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
GATHERING STATIONS/BOA GATHERING STATION

Machine Id
MRC-204 - ARIEL (S/N F61959)

Component
Compressor

Fluid
TULCO LUBSOIL LPG WS 150 (--- GAL)

RECOMMENDATION

We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO60002311	TO60001479	TO60000728
Sample Date		Client Info		01 Apr 2024	02 Oct 2023	13 Jul 2023
Machine Age	hrs	Client Info		27035	19041	17138
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Filter Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

Moderate concentration of visible metal present. All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	2	<1	1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>25	1	1	<1
Lead	ppm	ASTM D5185m	>25	3	9	6
Copper	ppm	ASTM D5185m	>50	32	52	▲ 62
Tin	ppm	ASTM D5185m	>15	2	4	3
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

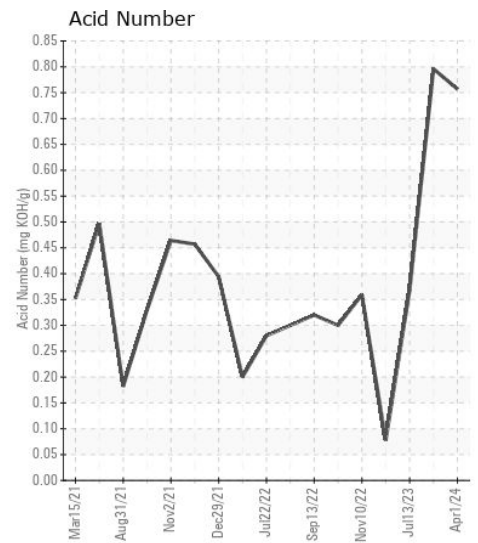
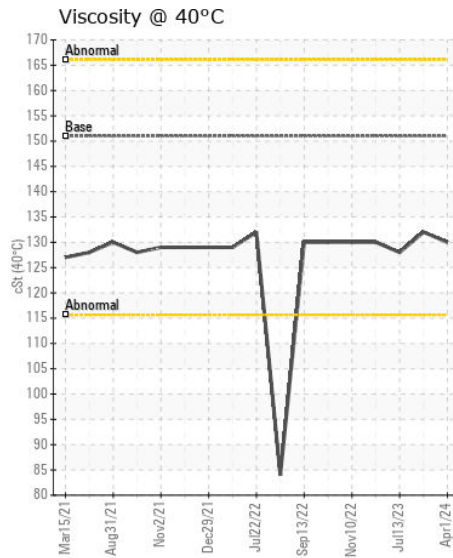
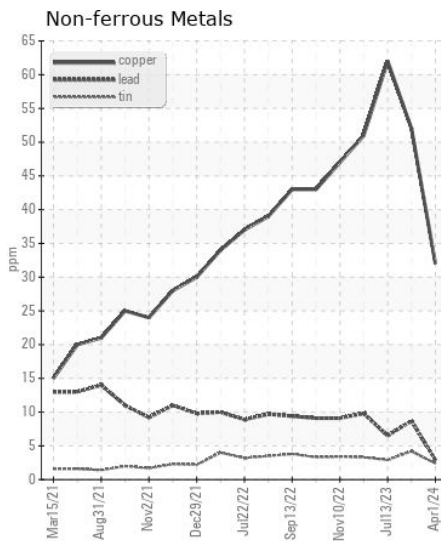
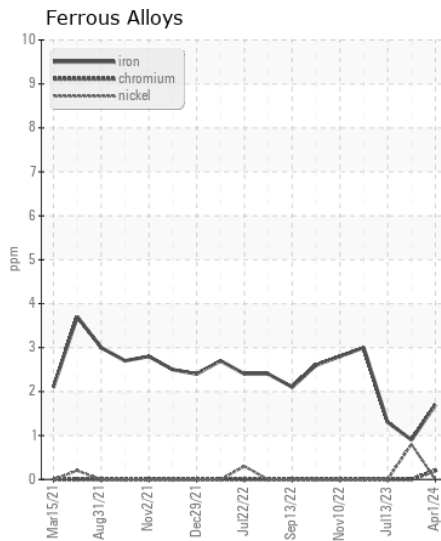
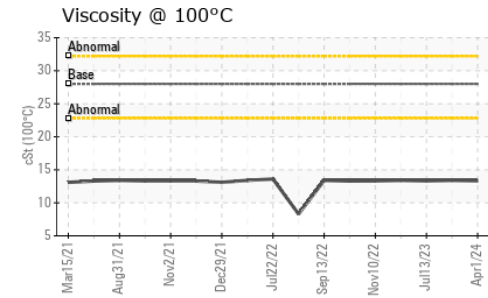
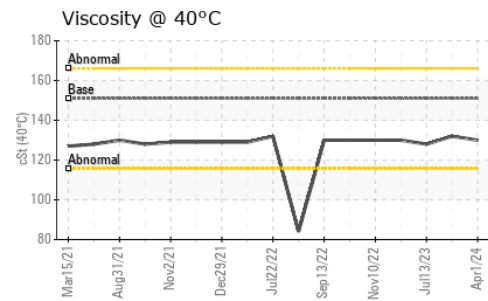
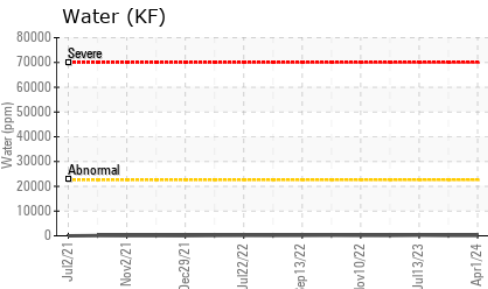
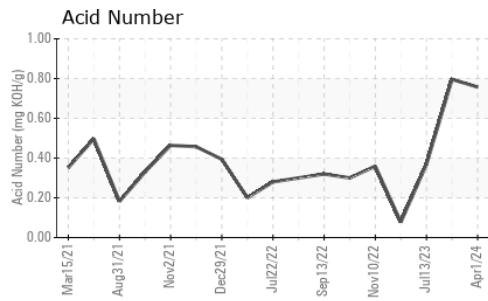
There is a moderate amount of visible silt present in the sample.

Silicon	ppm	ASTM D5185m	>25	3	1	1
Potassium	ppm	ASTM D5185m	>20	3	2	<1
Water	%	ASTM D6304	>2.26	0.007	0.007	0.022
ppm Water	ppm	ASTM D6304	>22600	72	78.4	222.8
Particles >4µm		ASTM D7647	>10000	---	2095	● 10090
Particles >6µm		ASTM D7647	>1300	---	508	● 2661
Particles >14µm		ASTM D7647	>320	---	29	137
Particles >21µm		ASTM D7647	>80	---	8	21
Particles >38µm		ASTM D7647	>20	---	0	1
Particles >71µm		ASTM D7647	>4	---	0	0
Oil Cleanliness		ISO 4406 (c)	>20/17/15	---	18/16/12	● 21/19/14
Silt	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		3	2	3
Boron	ppm	ASTM D5185m	0	77	79	78
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	2
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	0	7	13	6
Calcium	ppm	ASTM D5185m	0	1236	1283	1301
Phosphorus	ppm	ASTM D5185m	0	297	279	295
Zinc	ppm	ASTM D5185m	0	311	357	338
Sulfur	ppm	ASTM D5185m	0	3362	1720	2062
Acid Number (AN)	mg KOH/g	ASTM D8045		0.757	0.796	0.368
Visc @ 40°C	cSt	ASTM D445	151	130	132	128
Visc @ 100°C	cSt	ASTM D445	28	13.3	13.4	13.3
Viscosity Index (VI)	Scale	ASTM D2270	224	96	95	97



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002311
Lab Number : 06154475
Unique Number : 10989898
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)