



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
ARIEL AGI 9300
Component
Reciprocating Compressor
Fluid
TULCO (30 GAL)

RECOMMENDATION

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

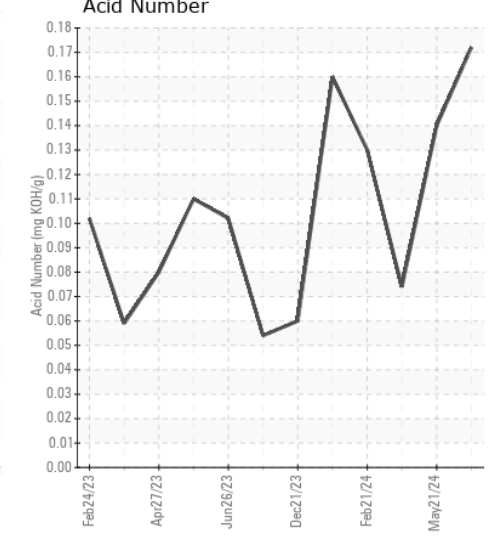
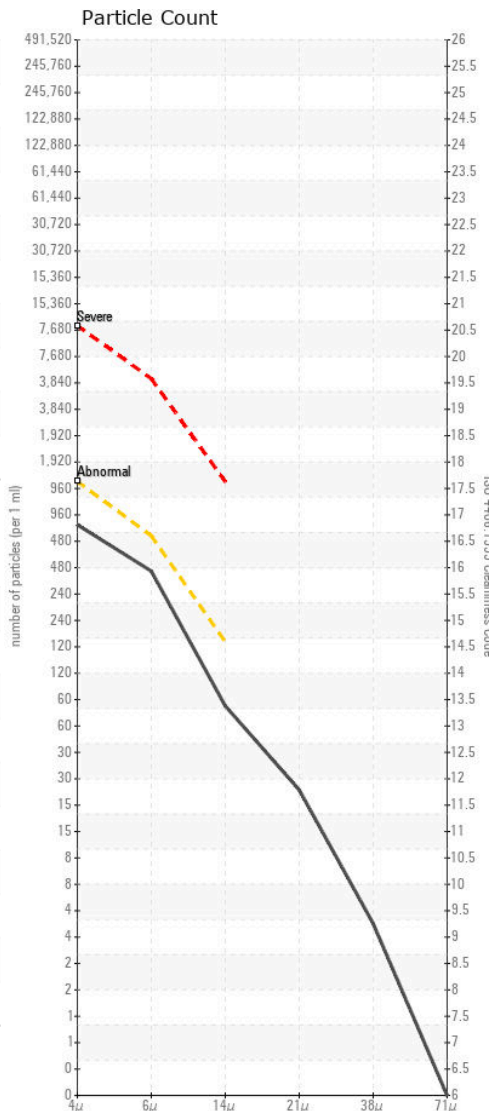
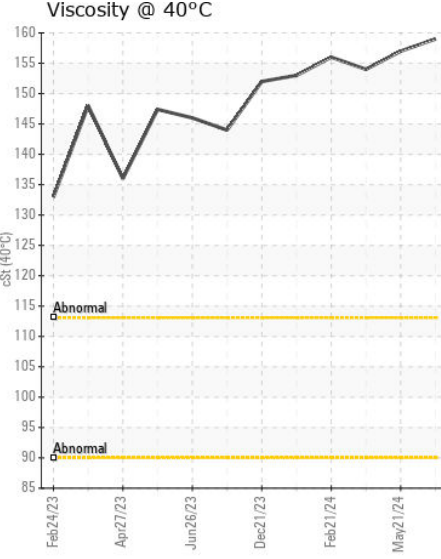
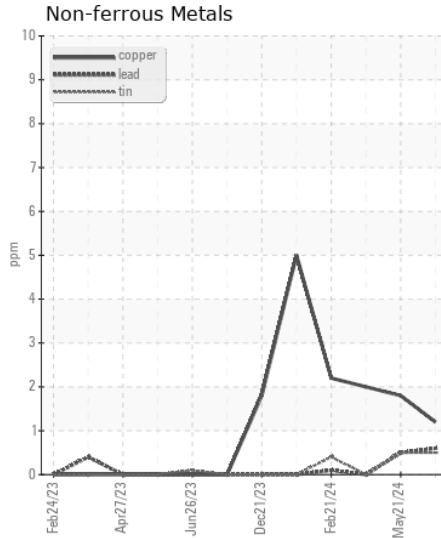
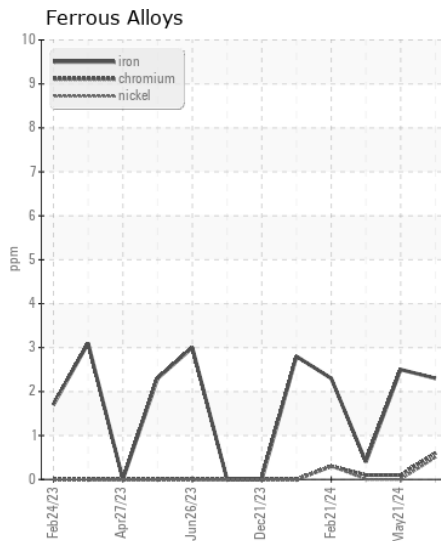
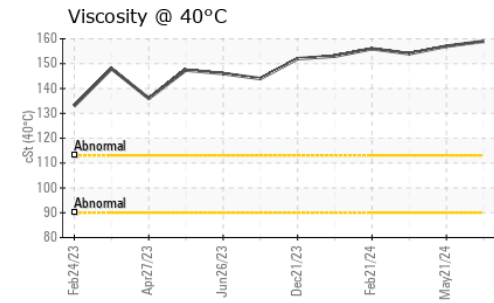
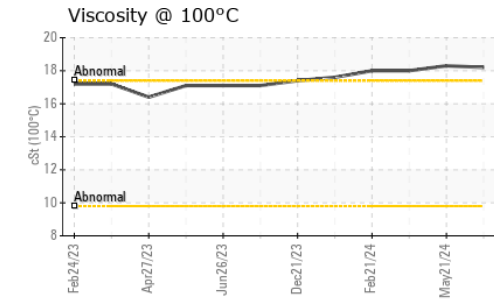
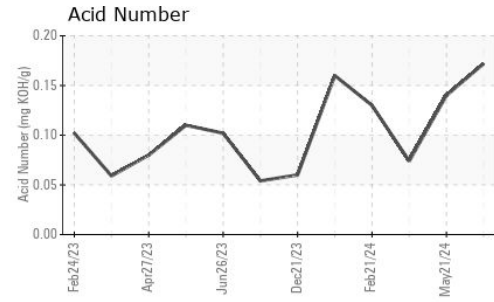
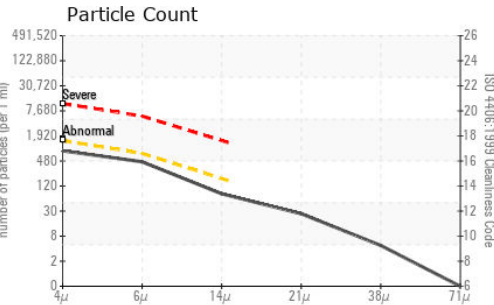
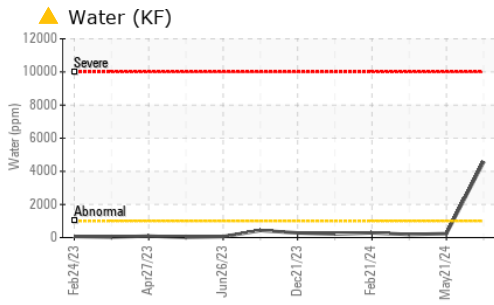
CONTAMINATION

Excessive free water present. There is a moderate concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO60000609	TO60002623	TO60000611
Sample Date		Client Info		19 Jun 2024	21 May 2024	26 Mar 2024
Machine Age	hrs	Client Info		52955	52352	51086
Oil Age	hrs	Client Info		5219	4616	9600
Filter Age	hrs	Client Info		5219	4616	9600
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				SEVERE	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>50	2	2	<1
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	0
Lead	ppm	ASTM D5185m	>25	<1	<1	0
Copper	ppm	ASTM D5185m	>50	1	2	2
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	2	1	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>0.1	▲ 0.457	0.023	0.018
ppm Water	ppm	ASTM D6304	>1000	▲ 4570	238	188
Particles >4µm		ASTM D7647	>1300	739	▲ 15286	▲ 8965
Particles >6µm		ASTM D7647	>640	403	546	357
Particles >14µm		ASTM D7647	>160	69	10	8
Particles >21µm		ASTM D7647	>40	23	3	3
Particles >38µm		ASTM D7647	>10	4	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>17/16/14	17/16/13	▲ 21/16/10	▲ 20/16/10
Silt	scalar	*Visual	NONE	NONE	▲ MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	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	>0.1	▲ 0.2%	NEG	NEG
Sodium	ppm	ASTM D5185m		<1	<1	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		1	<1	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		1	2	2
Calcium	ppm	ASTM D5185m		0	2	3
Phosphorus	ppm	ASTM D5185m		17	48	50
Zinc	ppm	ASTM D5185m		3	2	2
Sulfur	ppm	ASTM D5185m		1635	1515	1529
Acid Number (AN)	mg KOH/g	ASTM D8045		0.172	0.14	0.074
Visc @ 40°C	cSt	ASTM D445		159	157	154
Visc @ 100°C	cSt	ASTM D445		18.2	18.3	18.0
Viscosity Index (VI)	Scale	ASTM D2270		127	130	129



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60000609 **Received** : 28 Jun 2024
Lab Number : 06223561 **Tested** : 03 Jul 2024
Unique Number : 11101758 **Diagnosed** : 03 Jul 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

CF STRAIT-DIMMIT
 9013 N I-35
 PEARSALL, TX
 US 78061
 Contact: Service Manager

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)

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F: