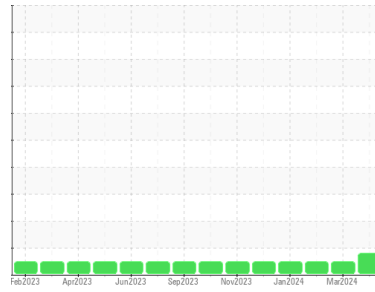


# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**ARIEL AGI 9200**  
Component  
**Reciprocating Compressor**  
Fluid  
**TULCO (20 GAL)**

**DIAGNOSIS**

**Recommendation**

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

**Wear**

All component wear rates are normal.

**Contamination**

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

**Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>TO60002621</b>	TO60000610	TO60000613
Sample Date	Client Info			<b>21 May 2024</b>	26 Mar 2024	21 Feb 2024
Machine Age	hrs	Client Info		<b>50616</b>	50613	50473
Oil Age	hrs	Client Info		<b>0</b>	0	16000
Oil Changed	Client Info			<b>Changed</b>	Not Changd	N/A
Sample Status				<b>ATTENTION</b>	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	<1
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m		<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	0	<1
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>3</b>	4	6
Calcium	ppm	ASTM D5185m		<b>6</b>	6	2
Phosphorus	ppm	ASTM D5185m		<b>101</b>	72	74
Zinc	ppm	ASTM D5185m		<b>7</b>	8	9
Sulfur	ppm	ASTM D5185m		<b>922</b>	975	952

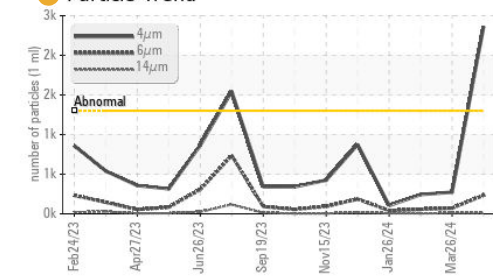
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>1</b>	0	<1
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1
Water	%	ASTM D6304	>0.1	<b>0.007</b>	0.004	0.003
ppm Water	ppm	ASTM D6304	>1000	<b>76</b>	47	38

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	<b>2362</b>	273	243
Particles >6µm		ASTM D7647	>640	<b>235</b>	73	57
Particles >14µm		ASTM D7647	>160	<b>10</b>	9	5
Particles >21µm		ASTM D7647	>40	<b>2</b>	4	1
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>17/16/14	<b>18/15/10</b>	15/13/10	15/13/10

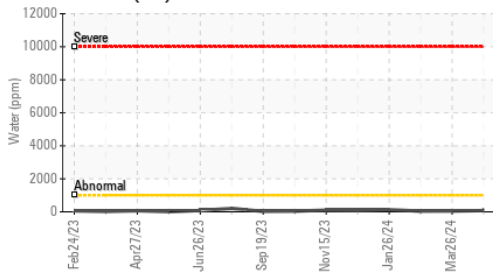
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.075</b>	0.059	0.053

# OIL ANALYSIS REPORT

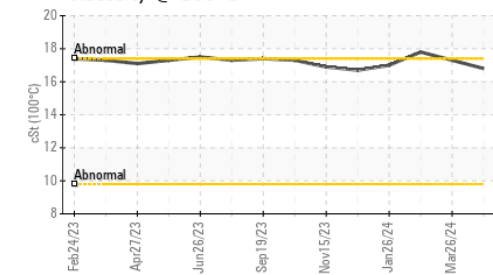
**Particle Trend**



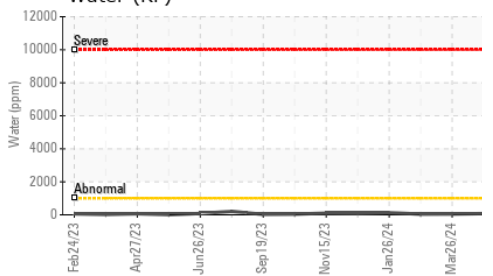
**Water (KF)**



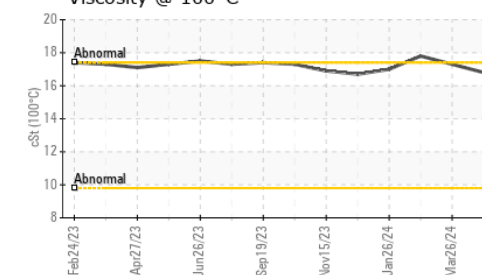
**Viscosity @ 100°C**



**Water (KF)**



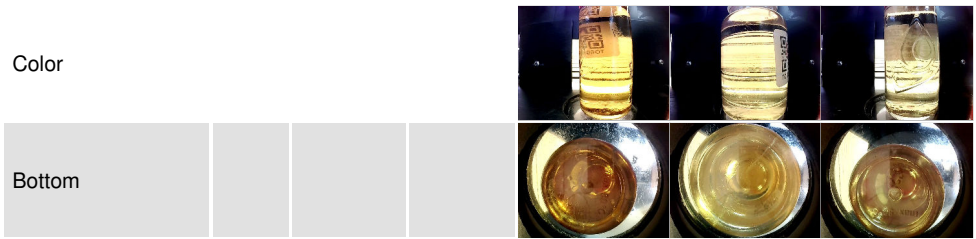
**Viscosity @ 100°C**



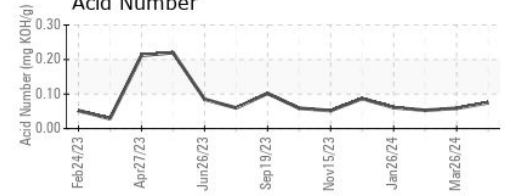
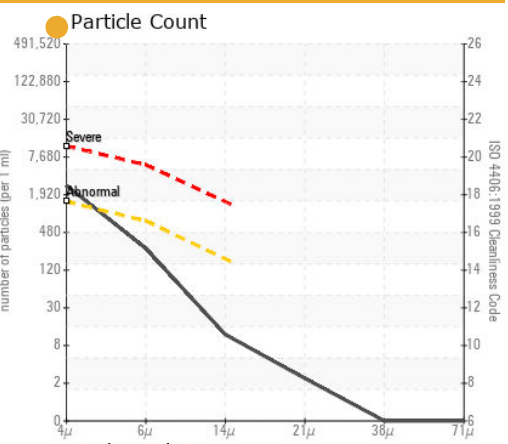
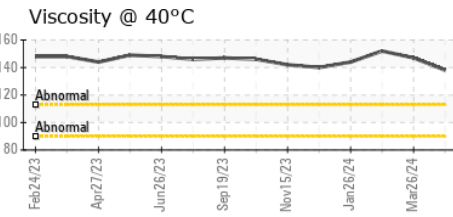
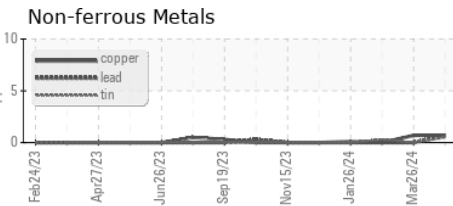
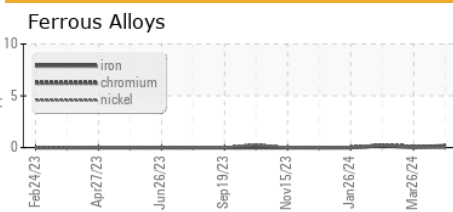
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	138	147	152
Visc @ 100°C	cSt	ASTM D445	16.8	17.3	17.8
Viscosity Index (VI)	Scale	ASTM D2270	131	128	129

**SAMPLE IMAGES**



**GRAPHS**



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO60002621 **Received** : 30 May 2024  
**Lab Number** : 06195412 **Tested** : 31 May 2024  
**Unique Number** : 11057535 **Diagnosed** : 31 May 2024 - Angela Borella  
**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)