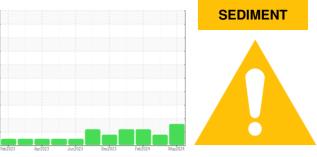


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **ARIEL AGI 9300** Reciprocating Compressor Fluic TULCO (30 GAL)

DIAGNOSIS

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

Fluid Condition

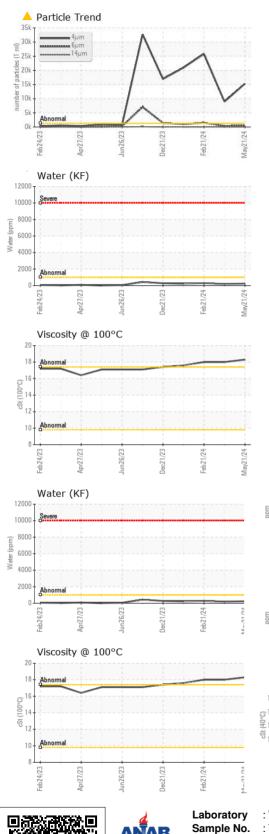
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2					
Machine Age hrs Client Info 52352 51086 50273 Oil Ago hrs Client Info 4616 9600 6780 Oil Changed Client Info ABNORMAL ABNORMAL	Sample Number		Client Info		TO60002623	TO60000611	TO60000614					
Oil Age hrs Client Info 4616 9600 6780 Oil Changed Client Info Not Changd Not Changd Not Changd Sample Status method limit/base current history1 ABNORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 2 <1	Sample Date		Client Info		21 May 2024	26 Mar 2024	21 Feb 2024					
Oil Changed Client Info Not Changd Not Changd Not Changd Sample Status Image Current Not Changd ABNORMAL WEAR METALS method limit/base current history1 Iron ppm ASTM D5185n >50 2 <1 2 Chromium ppm ASTM D5185n >50 2 <1 2 Nickel ppm ASTM D5185n >50 2 <1 2 Nickel ppm ASTM D5185n >50 2 <1 0 Silver ppm ASTM D5185n >25 2 0 0 Gopper ppm ASTM D5185n >25 2 0 0 Cadmium ppm ASTM D5185n >25 2 0 0 Astm D5185n >50 2 2 2 2 Cadmium ppm ASTM D5185n >50 2 2 2 Cadmium ppm ASTM D5185n < 0 0 0 ASTM D5185n 2 2 2 2 2 Cadmium ppm ASTM D5185n <1 0 0 Baron 0 <td>Machine Age</td> <td>hrs</td> <td>Client Info</td> <td></td> <th>52352</th> <td>51086</td> <td>50273</td>	Machine Age	hrs	Client Info		52352	51086	50273					
Sample Status method imit/base current history1 ABNORMAL WEAR METALS method imit/base current history2 Iron ppm ASTM D5185m >50 2 <1	Oil Age	hrs	Client Info		4616	9600	6780					
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185m >50 2 <1	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd					
Iron ppm ASTM D5185m >50 2 <1 2 Chromium ppm ASTM D5185m >10 <1	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL					
Ppm ASTM D5185m >10 <1 <1 <1 <1 <1 <1 Nickel ppm ASTM D5185m 0 0 <1	WEAR METALS		method	limit/base	current	history1	history2					
Nickel ppm ASTM D5185m 0 < <th><<th><<th><<th><<th><<t< td=""><td>Iron</td><td>ppm</td><td>ASTM D5185m</td><td>>50</td><th>2</th><td><1</td><td>2</td></t<></th></th></th></th></th>	< <th><<th><<th><<th><<t< td=""><td>Iron</td><td>ppm</td><td>ASTM D5185m</td><td>>50</td><th>2</th><td><1</td><td>2</td></t<></th></th></th></th>	< <th><<th><<th><<t< td=""><td>Iron</td><td>ppm</td><td>ASTM D5185m</td><td>>50</td><th>2</th><td><1</td><td>2</td></t<></th></th></th>	< <th><<th><<t< td=""><td>Iron</td><td>ppm</td><td>ASTM D5185m</td><td>>50</td><th>2</th><td><1</td><td>2</td></t<></th></th>	< <th><<t< td=""><td>Iron</td><td>ppm</td><td>ASTM D5185m</td><td>>50</td><th>2</th><td><1</td><td>2</td></t<></th>	< <t< td=""><td>Iron</td><td>ppm</td><td>ASTM D5185m</td><td>>50</td><th>2</th><td><1</td><td>2</td></t<>	Iron	ppm	ASTM D5185m	>50	2	<1	2
Titanium ppm ASTM D5185m <1 0 <1 Silver ppm ASTM D5185m 0 0 0 Auminum ppm ASTM D5185m >25 2 0 <1 Lead ppm ASTM D5185m >25 2 0 <1	Chromium	ppm	ASTM D5185m	>10	<1	<1	<1					
Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >25 2 0 <1	Nickel	ppm	ASTM D5185m		0	0	<1					
Aluminum ppm ASTM D5185m >25 2 0 <1 Lead ppm ASTM D5185m >25 <1	Titanium	ppm	ASTM D5185m		<1	0	<1					
Lead ppm ASTM D5185m<>25 <1 0 <1 Copper ppm ASTM D5185m >50 2 2 2 Tin ppm ASTM D5185m >15 <1	Silver	ppm	ASTM D5185m		0	0	0					
Copper ppm ASTM D5185m >50 2 2 2 Tin ppm ASTM D5185m >15 <1	Aluminum	ppm	ASTM D5185m	>25	2	0	<1					
Tin ppm ASTM D5185m >15 <1 0 <1 Vanadium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m <1 0 <1 <1 <1 0 Manganese ppm ASTM D5185m 2 1 3 0 3	Lead	ppm	ASTM D5185m	>25	<1	0	<1					
Tin ppm ASTM D5185m<>15 <1 0 <1 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m	>50	2	2	2					
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ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m <1	Vanadium	ppm	ASTM D5185m		0	0	0					
Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m <1	Cadmium				0	0						
Barium ppm ASTM D5185m <1 0 0 Molybdenum ppm ASTM D5185m <1	ADDITIVES		method	limit/base	current	history1	history2					
Molybdenum ppm ASTM D5185m <1 0 <1 Manganese ppm ASTM D5185m 0 <1	Boron	ppm	ASTM D5185m		0	0	0					
Manganese ppm ASTM D5185m 0 <1 <1 Magnesium ppm ASTM D5185m 2 2 2 Calcium ppm ASTM D5185m 2 3 0 Phosphorus ppm ASTM D5185m 2 2 1 Sulfur ppm ASTM D5185m 2 2 1 Sulfur ppm ASTM D5185m 2 2 1 Sulfur ppm ASTM D5185m 2 2 1 Solfur ppm ASTM D5185m 2 2 1 Solfur ppm ASTM D5185m 2 1 1 Solfur ppm ASTM D5185m >25 1 <1	Barium	ppm	ASTM D5185m		<1	0	0					
Magnesium ppm ASTM D5185m 2 2 2 Calcium ppm ASTM D5185m 2 3 0 Phosphorus ppm ASTM D5185m 48 50 59 Zinc ppm ASTM D5185m 2 1 1 Sulfur ppm ASTM D5185m 22 1 1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 <1	Molybdenum	ppm	ASTM D5185m		<1	0	<1					
Calcium ppm ASTM D5185m 2 3 0 Phosphorus ppm ASTM D5185m 48 50 59 Zinc ppm ASTM D5185m 2 2 1 Sulfur ppm ASTM D5185m 1515 1529 1413 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 <1	Manganese	ppm	ASTM D5185m		0	<1	<1					
Phosphorus ppm ASTM D5185m 48 50 59 Zinc ppm ASTM D5185m 2 2 1 Sulfur ppm ASTM D5185m 1515 1529 1413 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 <1	Magnesium	ppm	ASTM D5185m		2	2	2					
Zinc ppm ASTM D5185m 2 2 1 Sulfur ppm ASTM D5185m 1515 1529 1413 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 <1	Calcium	ppm	ASTM D5185m		2	3	0					
Sulfur ppm ASTM D5185m 1515 1529 1413 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 <1 <1 <1 Sodium ppm ASTM D5185m >25 1 <1 <1 <1 Sodium ppm ASTM D5185m >20 <1 0 0 Potassium ppm ASTM D5185m >20 <1 0 <1 Water % ASTM D5304 >0.1 0.023 0.018 0.028 ppm Water ppm ASTM D6304 >1000 238 188 285 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 15286 8965 25795 Particles >1µm ASTM D7647 >640 3 3 2 Particles >21µm ASTM D7647 >10	Phosphorus	ppm	ASTM D5185m		48	50	59					
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 <1	Zinc	ppm	ASTM D5185m		2	2	1					
Silicon ppm ASTM D5185m >25 1 <1 <1 Sodium ppm ASTM D5185m >20 <1 0 0 Potassium ppm ASTM D5185m >20 <1 0 <1 Water % ASTM D6304 >0.1 0.023 0.018 0.028 ppm Water ppm ASTM D6304 >1000 238 188 285 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 15286 8965 25795 Particles >6µm ASTM D7647 >640 546 357 1492 Particles >1µm ASTM D7647 >160 10 8 18 Particles >21µm ASTM D7647 >40 3 3 2 Particles >38µm ASTM D7647 >3 0 0 1 Particles >71µm ASTM D7647 >3 0 0 2 2 2 18 Particles >71µm ASTM D7647 >3 0	Sulfur	ppm	ASTM D5185m		1515	1529	1413					
Sodium ppm ASTM D5185m <1 0 0 Potassium ppm ASTM D5185m >20 <1	CONTAMINANTS	;	method	limit/base	current	history1	history2					
Potassium ppm ASTM D5185m >20 <1 0 <1 Water % ASTM D6304 >0.1 0.023 0.018 0.028 ppm Water ppm ASTM D6304 >1000 238 188 285 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 ▲ 15286 ▲ 8965 ▲ 25795 Particles >6µm ASTM D7647 >640 546 357 ▲ 1492 Particles >14µm ASTM D7647 >160 10 8 18 Particles >21µm ASTM D7647 >40 3 3 2 Particles >38µm ASTM D7647 >10 0 0 1 Particles >71µm ASTM D7647 >3 0 0 22/18/11 FLUID DEGRADATION method limit/base current history1 Aistory2	Silicon	ppm	ASTM D5185m	>25	-	<1	<1					
Water % ASTM D6304 >0.1 0.023 0.018 0.028 ppm Water ppm ASTM D6304 >1000 238 188 285 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 15286 8965 25795 Particles >6µm ASTM D7647 >640 546 357 1492 Particles >14µm ASTM D7647 >160 10 8 18 Particles >21µm ASTM D7647 >40 3 3 2 Particles >21µm ASTM D7647 >10 0 0 1 Particles >38µm ASTM D7647 >3 0 0 1 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/16/14 21/16/10 20/16/10 22/18/11 FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		<1	0	0					
ppm Water ppm ASTM D6304 >1000 238 188 285 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 15286 & 8965 25795 Particles >6µm ASTM D7647 >640 546 357 1492 Particles >14µm ASTM D7647 >160 10 8 18 Particles >14µm ASTM D7647 >100 0 1 Particles >21µm ASTM D7647 >10 0 0 1 Particles >38µm ASTM D7647 >3 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) 17/16/14 21/16/10 20/16/10 22/18/11 FLUID DEGRADATION method limit/base current history1 history2		ppm	ASTM D5185m	>20	<1	0	<1					
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 ▲ 15286 ▲ 8965 ▲ 25795 Particles >6µm ASTM D7647 >640 546 357 ▲ 1492 Particles >14µm ASTM D7647 >160 10 8 18 Particles >21µm ASTM D7647 >40 3 3 2 Particles >21µm ASTM D7647 >10 0 0 1 Particles >38µm ASTM D7647 >10 0 0 1 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/16/14 21/16/10 20/16/10 22/18/11 FLUID DEGRADATION method limit/base current history1 history2	Water	%	ASTM D6304	>0.1	0.023	0.018	0.028					
Particles >4µm ASTM D7647 >1300 ▲ 15286 ▲ 8965 ▲ 25795 Particles >6µm ASTM D7647 >640 546 357 ▲ 1492 Particles >14µm ASTM D7647 >160 10 8 18 Particles >21µm ASTM D7647 >40 3 3 2 Particles >21µm ASTM D7647 >40 3 3 2 Particles >38µm ASTM D7647 >10 0 0 1 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/16/14 21/16/10 20/16/10 22/18/11	ppm Water	ppm	ASTM D6304	>1000	238	188	285					
Particles >6µm ASTM D7647 >640 546 357 1492 Particles >14µm ASTM D7647 >160 10 8 18 Particles >21µm ASTM D7647 >40 3 3 2 Particles >21µm ASTM D7647 >40 3 3 2 Particles >38µm ASTM D7647 >10 0 0 1 Particles >38µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/16/14 21/16/10 20/16/10 22/18/11 FLUID DEGRADATION method limit/base current history1 history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2					
Particles >14µm ASTM D7647 >160 10 8 18 Particles >21µm ASTM D7647 >40 3 3 2 Particles >38µm ASTM D7647 >10 0 0 1 Particles >38µm ASTM D7647 >3 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/16/14 21/16/10 20/16/10 22/18/11 FLUID DEGRADATION method limit/base current history1 history2												
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Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/16/14 21/16/10 20/16/10 22/18/11 FLUID DEGRADATION method limit/base current history1 history2			ASTM D7647	>40								
Oil Cleanliness ISO 4406 (c) >17/16/14 21/16/10 20/16/10 22/18/11 FLUID DEGRADATION method limit/base current history1 history2												
FLUID DEGRADATION method limit/base current history1 history2												
	Oil Cleanliness		ISO 4406 (c)	>17/16/14	A 21/16/10	20/16/10	<u>22/18/11</u>					
Acid Number (AN) mg KOH/g ASTM D8045 0.14 0.074 0.13	FLUID DEGRADA	TION	method	limit/base	current	history1	history2					
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.14	0.074	0.13					

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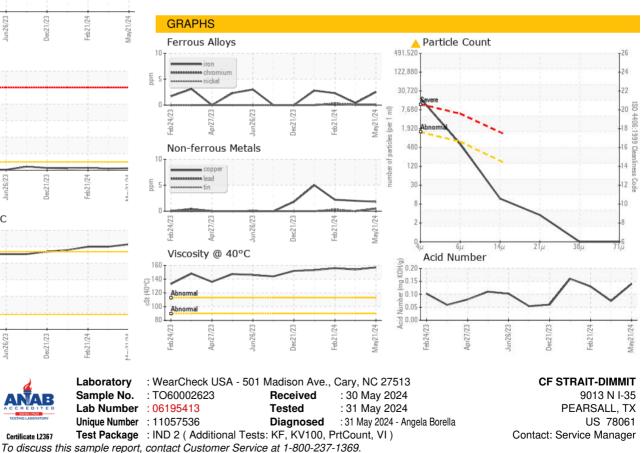


OIL ANALYSIS REPORT



		and the state	Para la /la ana a		In the first second second	la la tana 20
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	A MODER	NONE	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	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		157	154	156
Visc @ 100°C	cSt	ASTM D445		18.3	18.0	18.0
Viscosity Index (VI)	Scale	ASTM D2270		130	129	127
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color						

Bottom



* - 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)

Certificate 12367

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