



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**VUELCO ARTESA**  
 Component  
**Hydraulic System**  
 Fluid  
 {not provided} (--- LTR)

**RECOMMENDATION**

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>AN06194643</b>	AN06151136	AN06151112
Sample Date		Client Info		<b>11 Apr 2024</b>	12 Mar 2024	16 Jan 2024
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>20</b>	15	14
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1
Lead	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185m	>20	<b>14</b>	12	12
Tin	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

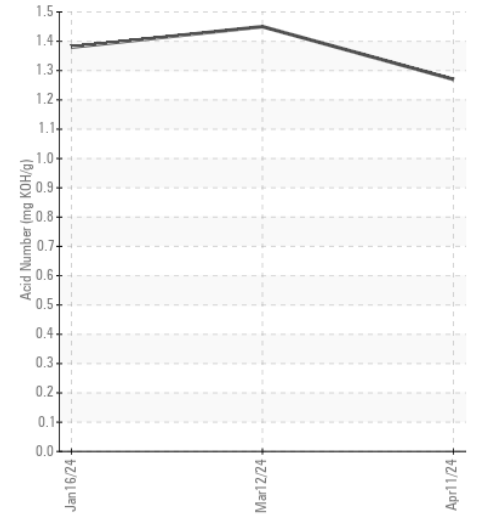
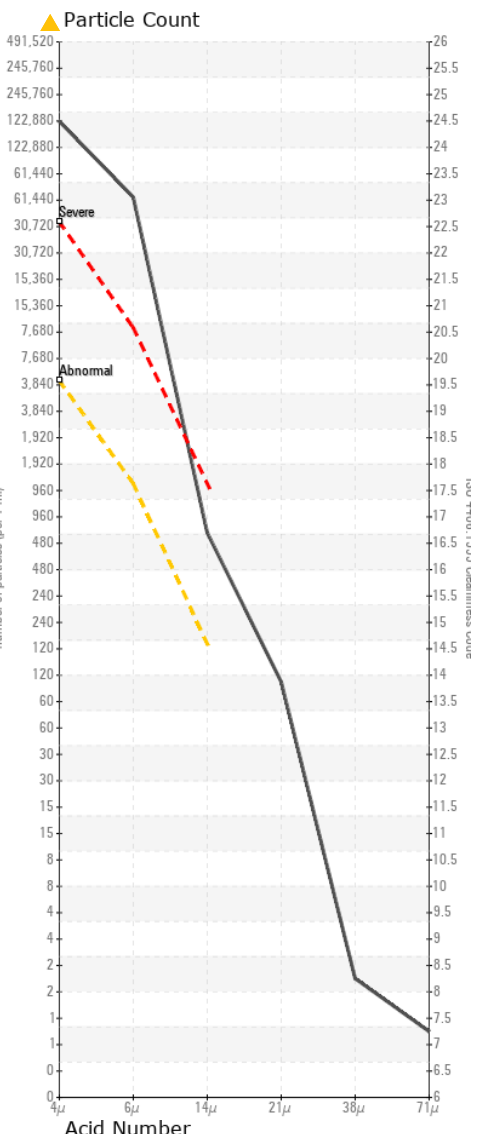
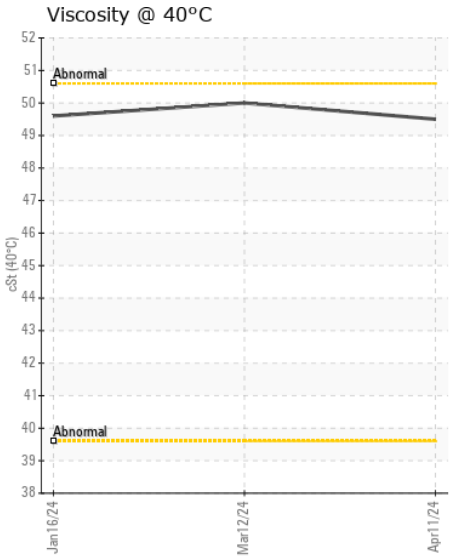
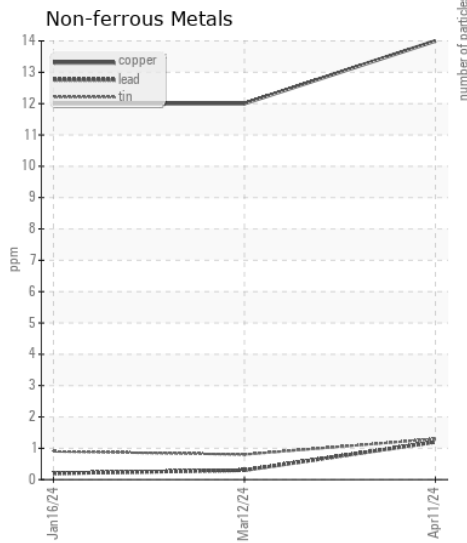
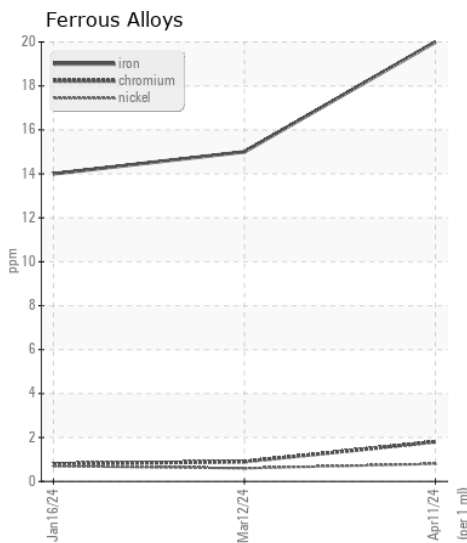
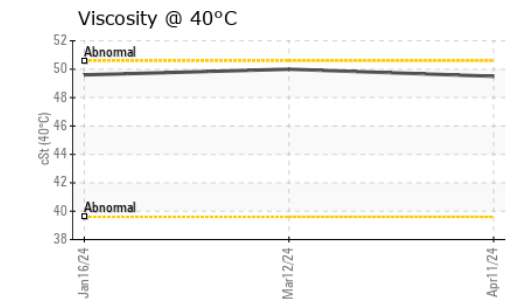
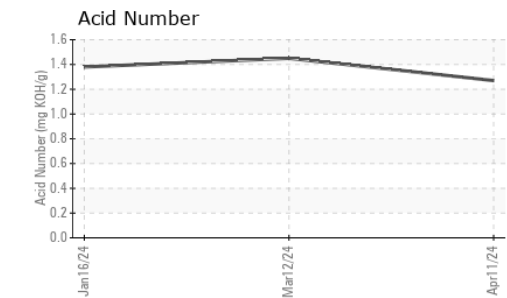
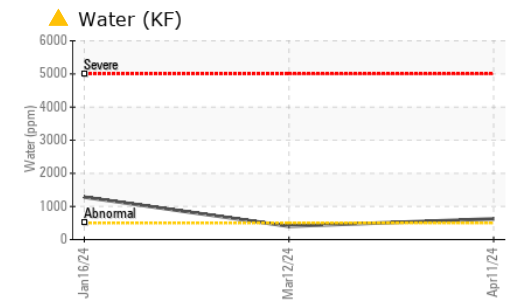
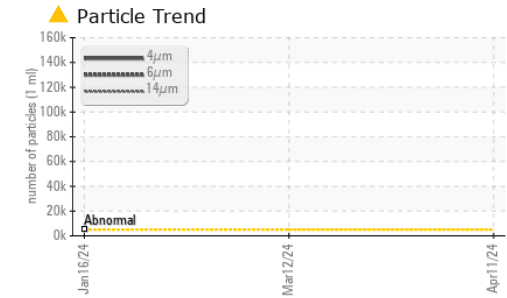
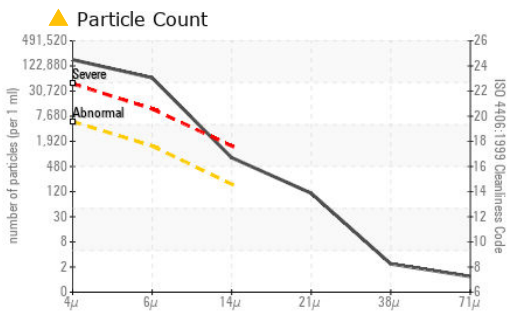
There is a high amount of particulates present in the oil. There is a trace of moisture present in the oil.

Silicon	ppm	ASTM D5185m	>15	<b>1</b>	<1	<1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	2
Water	%	ASTM D6304	>0.05	<b>▲ 0.062</b>	0.040	▲ 0.128
ppm Water	ppm	ASTM D6304	>500	<b>▲ 627</b>	401	▲ 1282
Particles >4µm		ASTM D7647	>5000	<b>▲ 148968</b>	---	---
Particles >6µm		ASTM D7647	>1300	<b>▲ 55190</b>	---	---
Particles >14µm		ASTM D7647	>160	<b>▲ 684</b>	---	---
Particles >21µm		ASTM D7647	>40	<b>▲ 97</b>	---	---
Particles >38µm		ASTM D7647	>10	<b>2</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>1</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 24/23/17</b>	---	---
Silt	scalar	*Visual	NONE	<b>LIGHT</b>	▲ MODER	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	▲ MDHVV
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>0</b>	1	2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	1	1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	1
Magnesium	ppm	ASTM D5185m		<b>4</b>	5	4
Calcium	ppm	ASTM D5185m		<b>0</b>	6	6
Phosphorus	ppm	ASTM D5185m		<b>194</b>	215	220
Zinc	ppm	ASTM D5185m		<b>10</b>	5	4
Sulfur	ppm	ASTM D5185m		<b>1959</b>	2328	2343
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.27</b>	1.45	1.38
Visc @ 40°C	cSt	ASTM D445		<b>49.5</b>	50.0	49.6



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : AN06194643 **Received** : 29 May 2024  
**Lab Number** : 06194643 **Tested** : 31 May 2024  
**Unique Number** : 11056766 **Diagnosed** : 31 May 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

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Certificate L2367  
 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)