



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.

WEAR

All component wear rates are normal.

CONTAMINATION

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

FLUID CONDITION

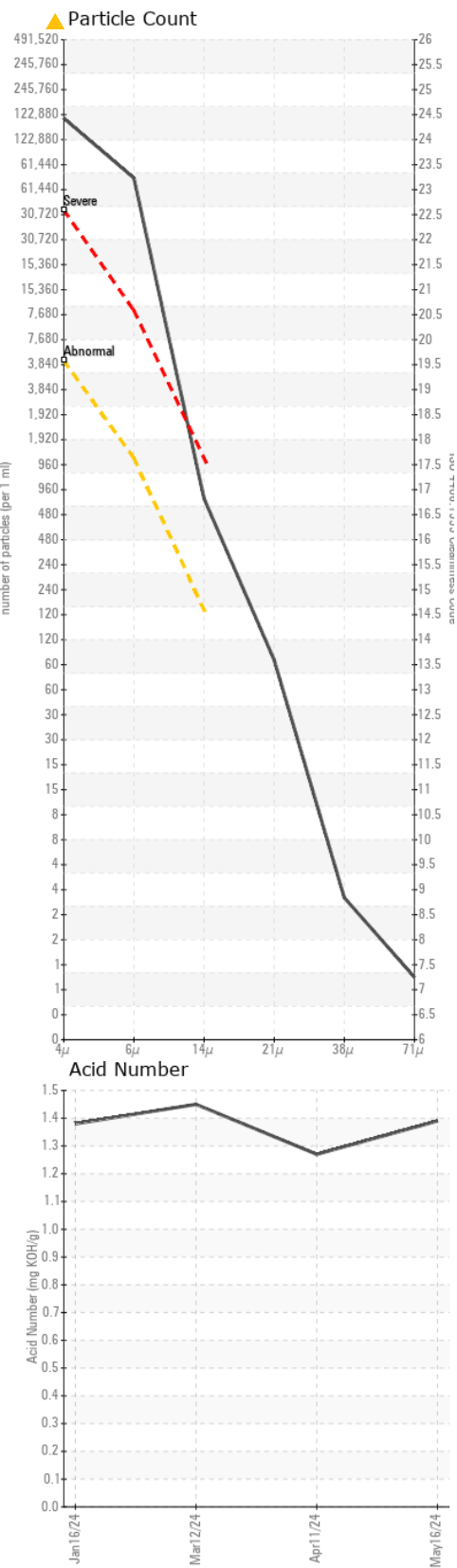
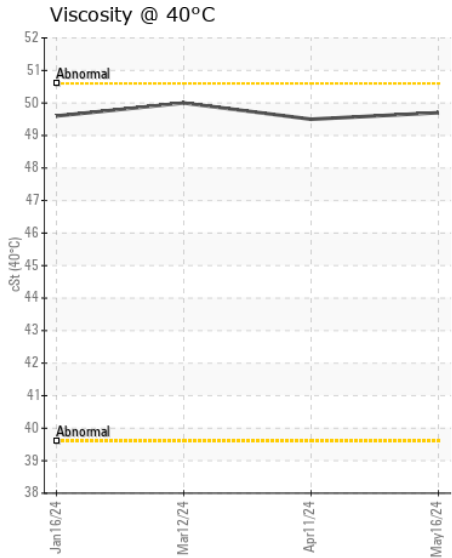
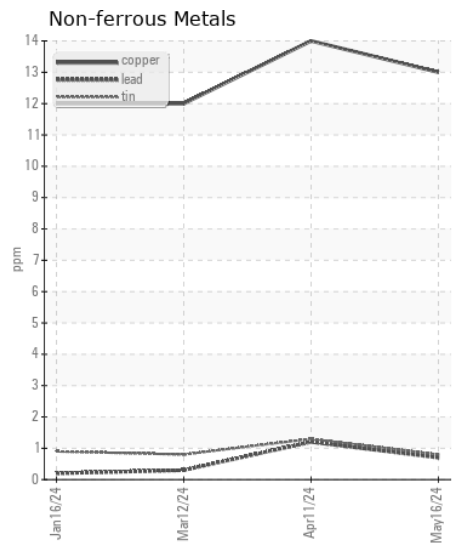
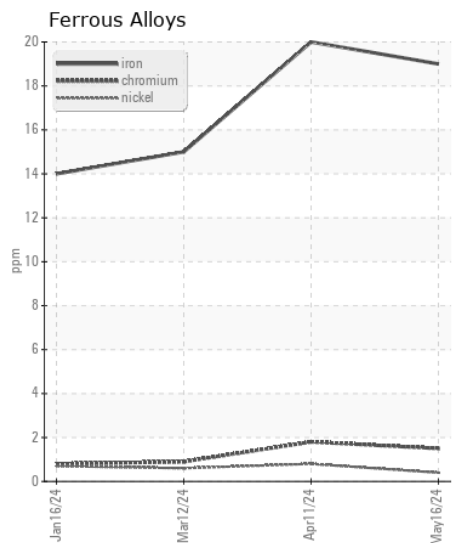
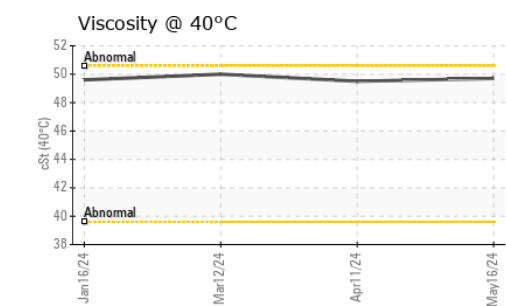
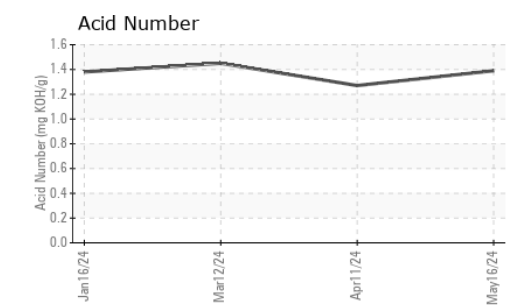
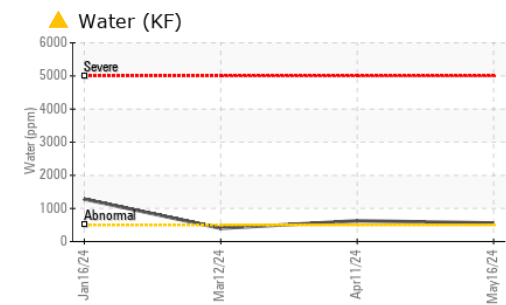
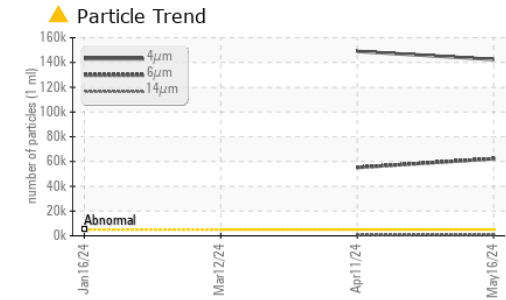
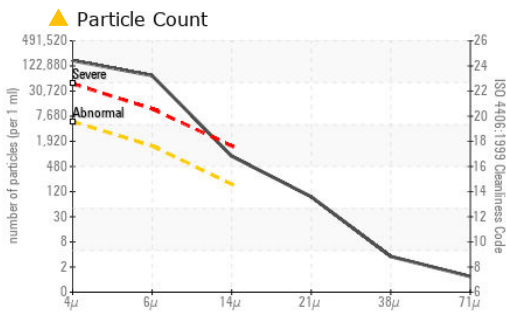
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		AN06194656	AN06194643	AN06151136
Sample Date		Client Info		16 May 2024	11 Apr 2024	12 Mar 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

Iron	ppm	ASTM D5185m	>20	19	20	15
Chromium	ppm	ASTM D5185m	>20	2	2	<1
Nickel	ppm	ASTM D5185m	>20	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	1	0
Aluminum	ppm	ASTM D5185m	>20	1	1	<1
Lead	ppm	ASTM D5185m	>20	<1	1	<1
Copper	ppm	ASTM D5185m	>20	13	14	12
Tin	ppm	ASTM D5185m	>20	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>15	1	1	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
Water	%	ASTM D6304	>0.05	▲ 0.056	▲ 0.062	0.040
ppm Water	ppm	ASTM D6304	>500	▲ 561	▲ 627	401
Particles >4µm		ASTM D7647	>5000	▲ 142419	▲ 148968	---
Particles >6µm		ASTM D7647	>1300	▲ 62288	▲ 55190	---
Particles >14µm		ASTM D7647	>160	▲ 744	▲ 684	---
Particles >21µm		ASTM D7647	>40	▲ 80	▲ 97	---
Particles >38µm		ASTM D7647	>10	3	2	---
Particles >71µm		ASTM D7647	>3	1	1	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/23/17	▲ 24/23/17	---
Silt	scalar	*Visual	NONE	NONE	LIGHT	▲ MODER
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	>0.05	NEG	NEG	NEG

Sodium	ppm	ASTM D5185m		<1	0	1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		2	2	1
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		4	4	5
Calcium	ppm	ASTM D5185m		8	0	6
Phosphorus	ppm	ASTM D5185m		225	194	215
Zinc	ppm	ASTM D5185m		16	10	5
Sulfur	ppm	ASTM D5185m		1944	1959	2328
Acid Number (AN)	mg KOH/g	ASTM D8045		1.39	1.27	1.45
Visc @ 40°C	cSt	ASTM D445		49.7	49.5	50.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : AN06194656 **Received** : 29 May 2024
Lab Number : 06194656 **Tested** : 31 May 2024
Unique Number : 11056779 **Diagnosed** : 31 May 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: PrtCount)

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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)