



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
DANIELI CARROS ARTESA
 Component
Hydraulic System
 Fluid
ANDEROL BIO GUARD FRHF 46 (--- LTR)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		AN06194635	AN06151128	AN06151116
Sample Date		Client Info		11 Apr 2024	12 Mar 2024	23 Feb 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

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	1	<1	0
Chromium	ppm	ASTM D5185m	>20	1	0	0
Nickel	ppm	ASTM D5185m	>20	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	8	<1	<1
Lead	ppm	ASTM D5185m	>20	<1	0	0
Copper	ppm	ASTM D5185m	>20	1	2	2
Tin	ppm	ASTM D5185m	>20	<1	<1	<1
Vanadium	ppm	ASTM D5185m		1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

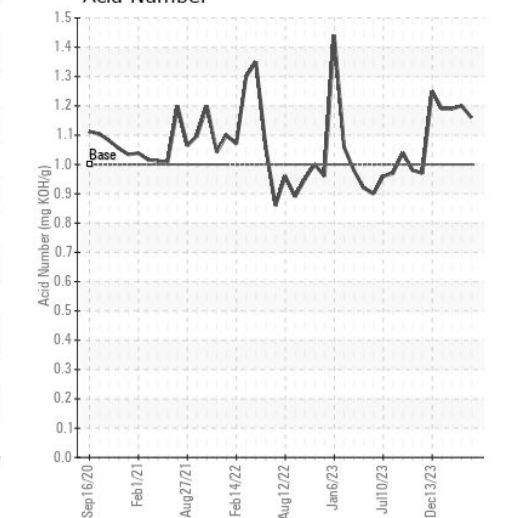
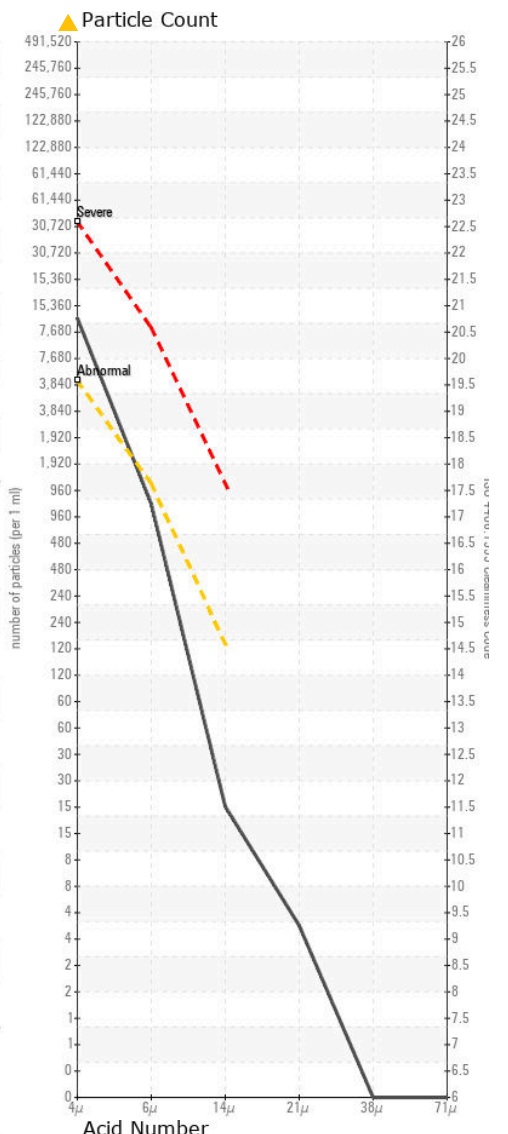
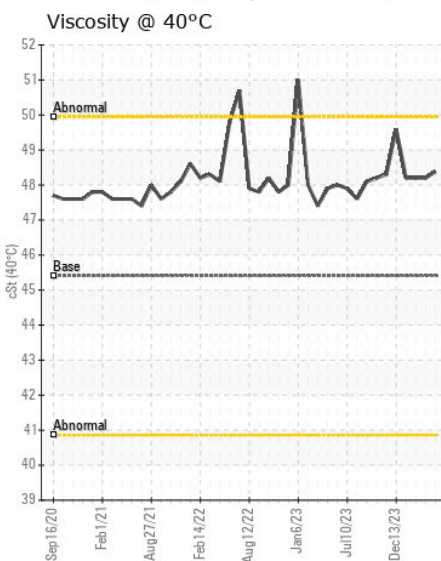
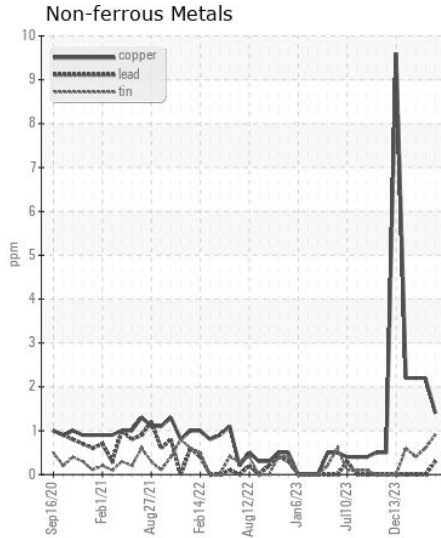
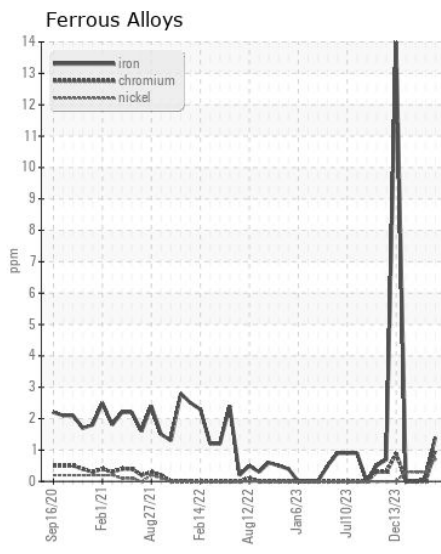
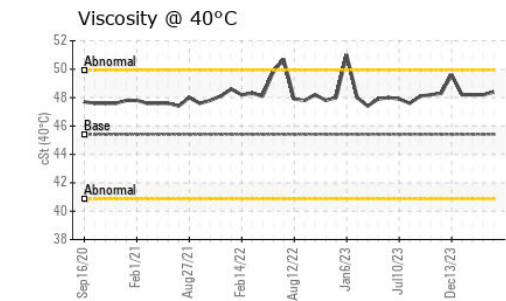
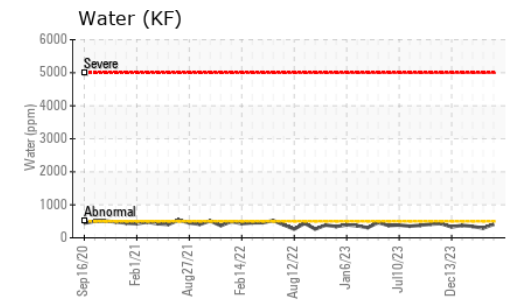
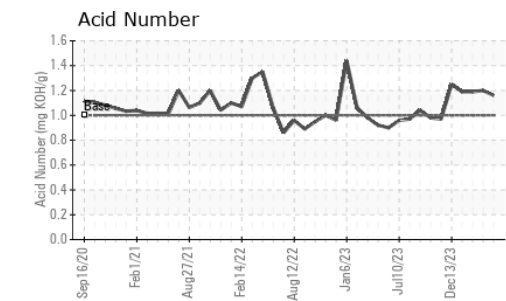
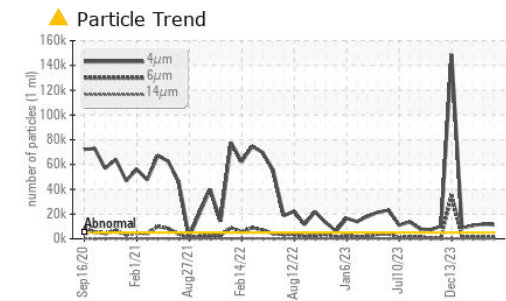
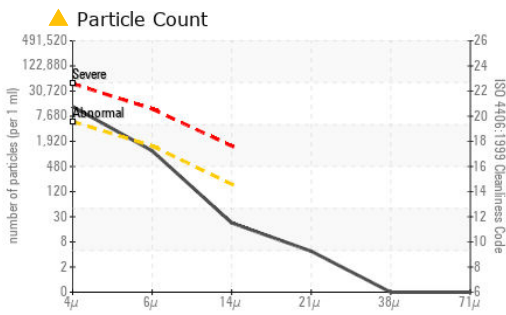
There is a high amount of silt (particulates < 6 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>15	2	0	0
Potassium	ppm	ASTM D5185m	>20	5	2	2
Water	%	ASTM D6304	>0.05	0.041	0.029	0.034
ppm Water	ppm	ASTM D6304	>500	411	293	345
Particles >4µm		ASTM D7647	>5000	▲ 11346	▲ 11899	▲ 10769
Particles >6µm		ASTM D7647	>1300	996	1083	1099
Particles >14µm		ASTM D7647	>160	19	69	68
Particles >21µm		ASTM D7647	>40	4	26	22
Particles >38µm		ASTM D7647	>10	0	2	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/17/11	▲ 21/17/13	▲ 21/17/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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

FLUID CONDITION

The AN level is at the top-end of the recommended limit. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		17	1	1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	1	1
Magnesium	ppm	ASTM D5185m		<1	<1	<1
Calcium	ppm	ASTM D5185m		0	<1	<1
Phosphorus	ppm	ASTM D5185m	196	80	204	209
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	1440	463	2192	2176
Acid Number (AN)	mg KOH/g	ASTM D8045	1	1.16	1.20	1.19
Visc @ 40°C	cSt	ASTM D445	45.41	48.38	48.2	48.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : AN06194635 **Received** : 29 May 2024
Lab Number : 06194635 **Tested** : 03 Jun 2024
Unique Number : 11056758 **Diagnosed** : 03 Jun 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)