



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
NORTH PRESS
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PE0002656	PE0002641	PE0002640
Sample Date		Client Info		20 May 2024	17 Apr 2024	16 Apr 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.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		17	19	15
Iron	ppm	ASTM D5185m	>20	4	1	1
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	2	2
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	3	2	2
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

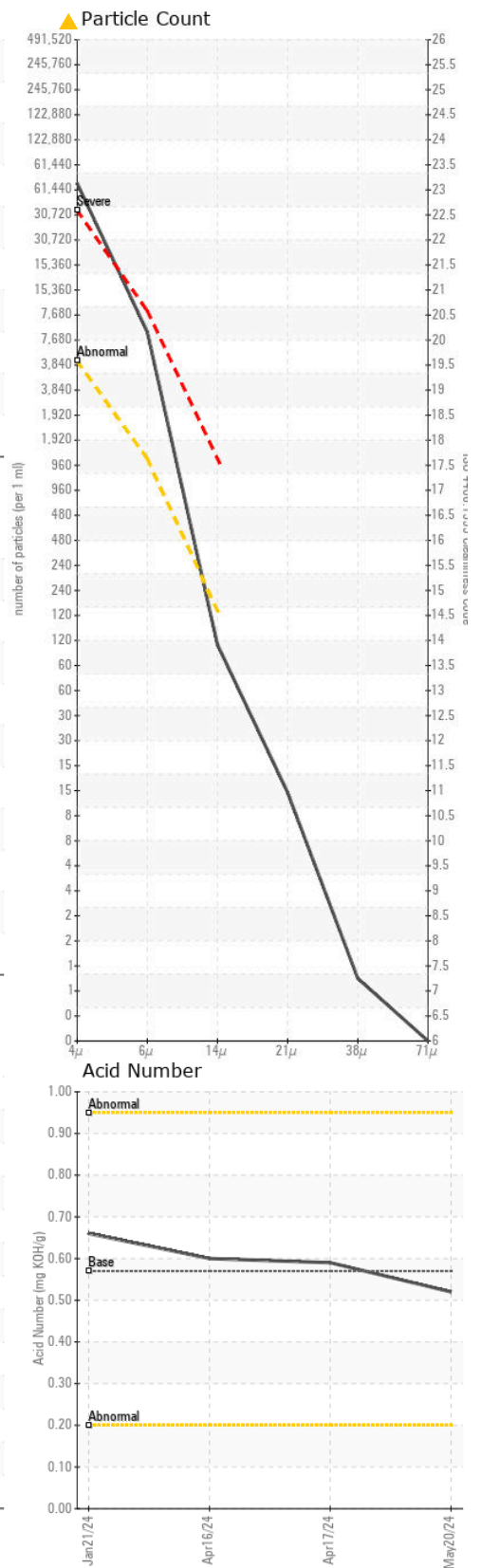
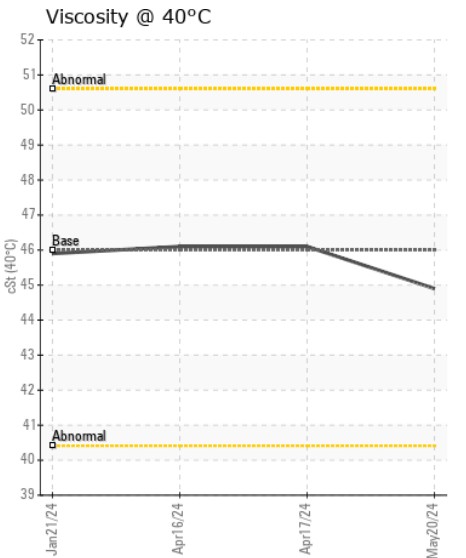
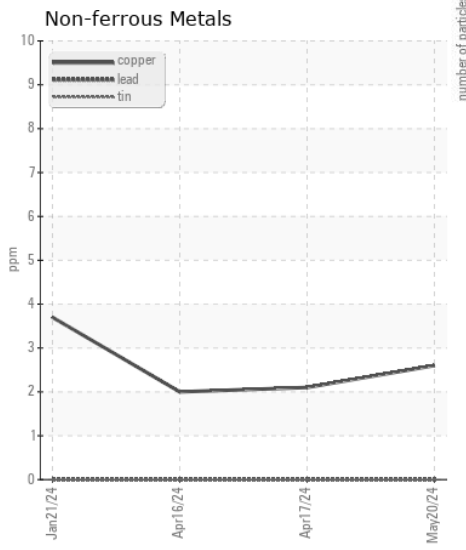
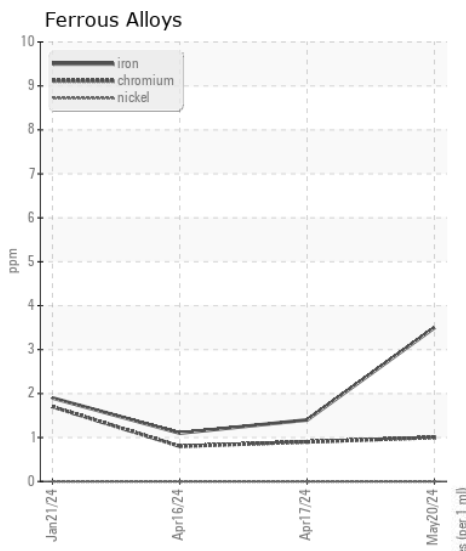
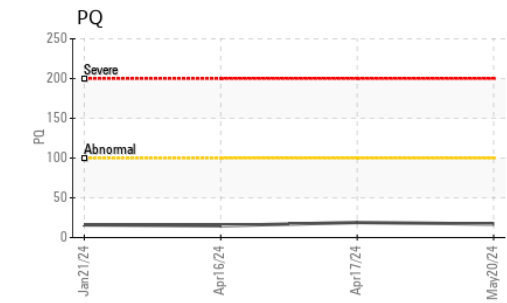
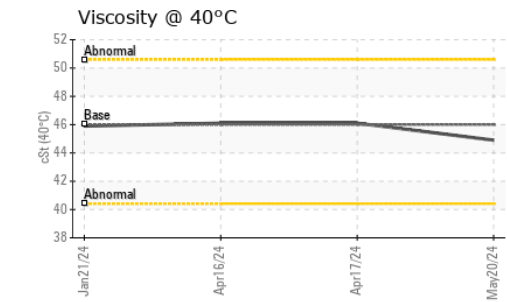
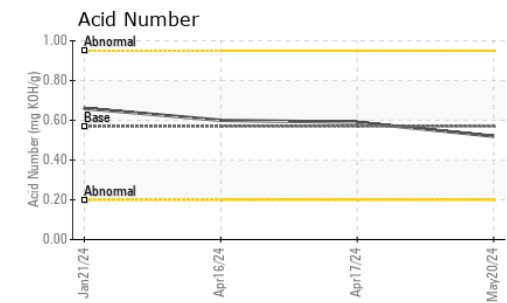
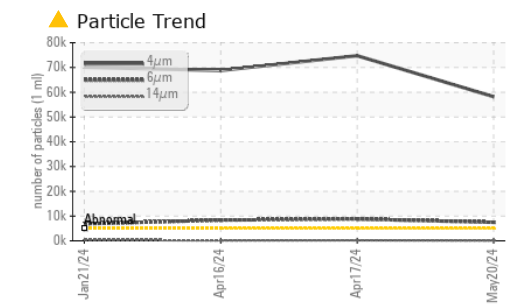
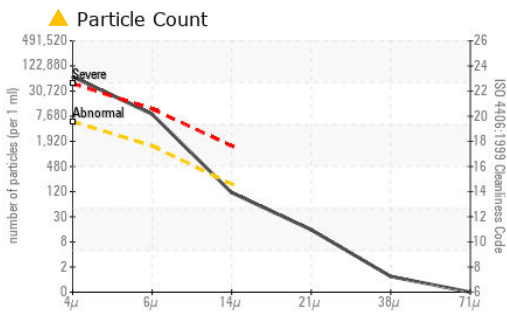
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>15	1	▲ 20	7
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water		WC Method	>0.05	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 58191	▲ 74750	▲ 68790
Particles >6µm		ASTM D7647	>1300	▲ 7471	▲ 8793	▲ 8354
Particles >14µm		ASTM D7647	>160	100	▲ 205	142
Particles >21µm		ASTM D7647	>40	13	▲ 64	39
Particles >38µm		ASTM D7647	>10	1	2	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 23/20/14	▲ 23/20/15	▲ 23/20/14
Silt	scalar	*Visual	NONE	NONE	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	>0.05	NEG	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		1	<1	1
Boron	ppm	ASTM D5185m	5	0	4	5
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	▲ 161	186	182
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	25	31	0	0
Calcium	ppm	ASTM D5185m	200	35	23	45
Phosphorus	ppm	ASTM D5185m	300	529	497	507
Zinc	ppm	ASTM D5185m	370	526	481	489
Sulfur	ppm	ASTM D5185m	2500	1876	1564	1638
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.52	0.59	0.60
Visc @ 40°C	cSt	ASTM D445	46	44.9	46.1	46.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0002656
Lab Number : 06193855
Unique Number : 11055978
Test Package : PLANT (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)

Received : 29 May 2024
Tested : 30 May 2024
Diagnosed : 30 May 2024 - Doug Bogart

4049 CARSON AVE HAZELGREEN RD NE
 SALEM, OR
 US 97305
 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)

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