



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
SOUTH PRESS
Component
Hydraulic System
Fluid
{not provided} (--- GAL)

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		PE0002643	PE0002642	PE0002635
Sample Date		Client Info		17 Apr 2024	16 Apr 2024	21 Jan 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
Iron	ppm	ASTM D5185m	>20	1	1	2
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	1	1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	9	10	10
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

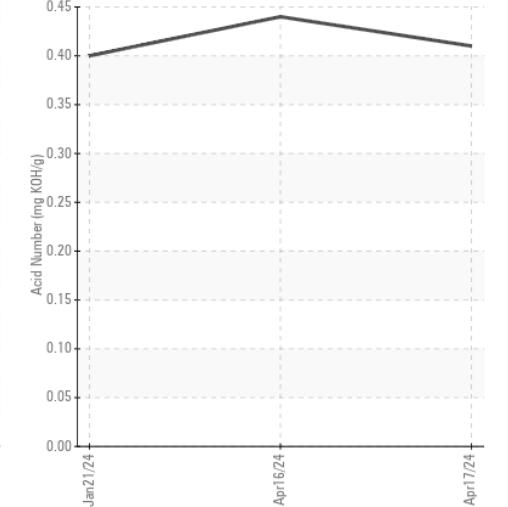
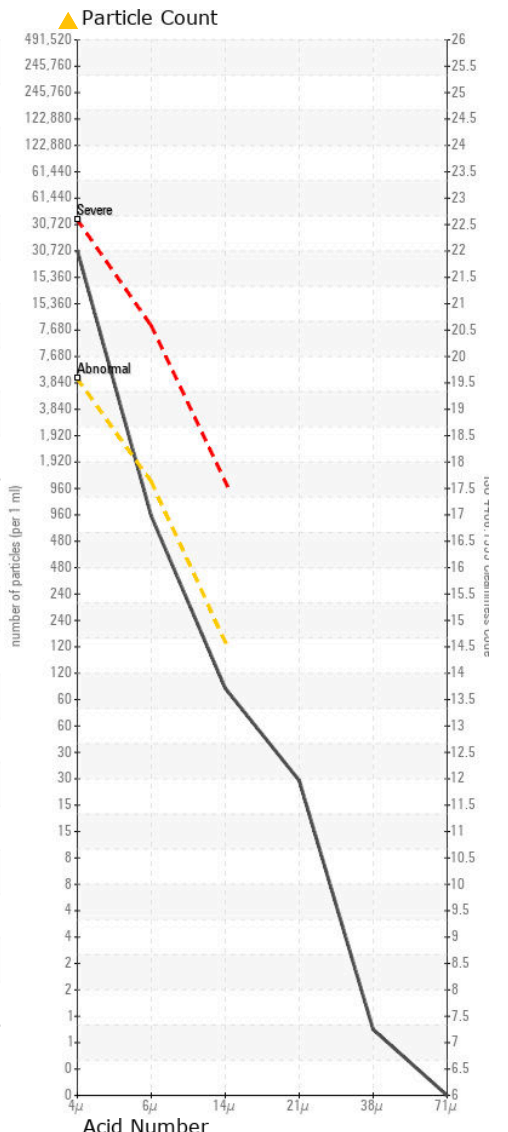
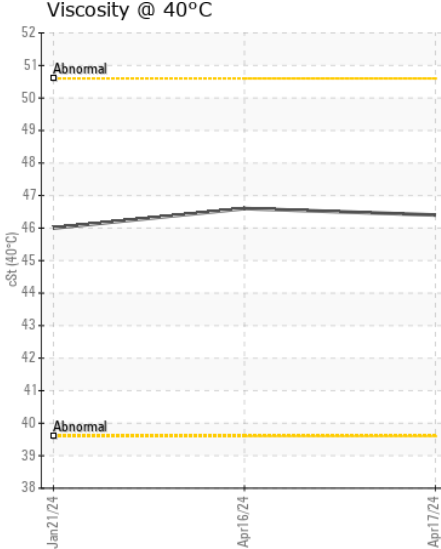
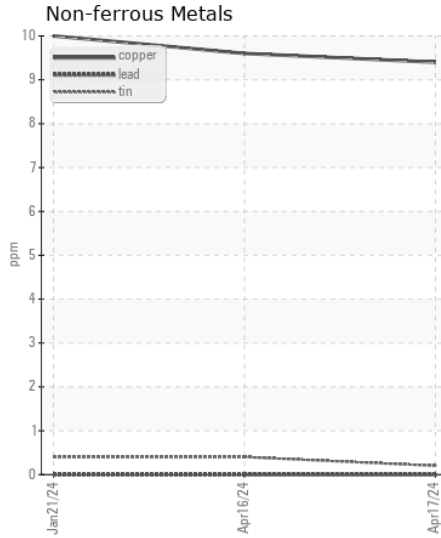
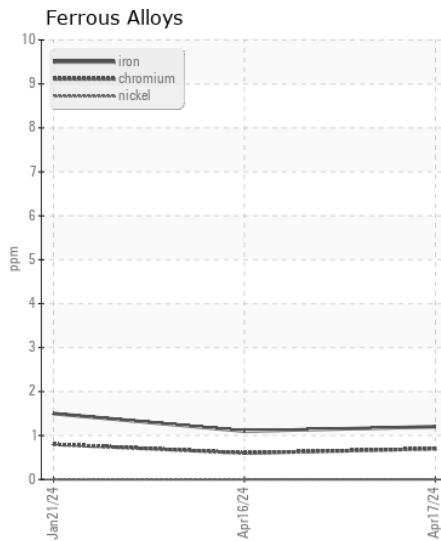
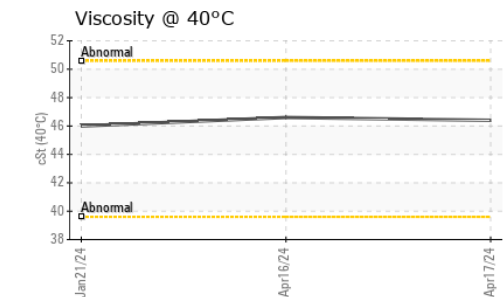
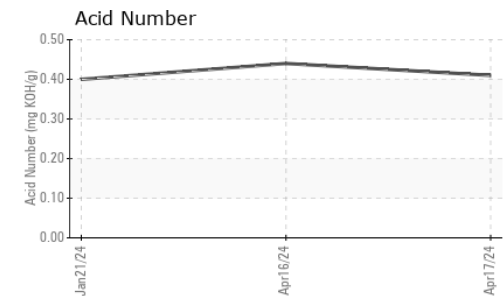
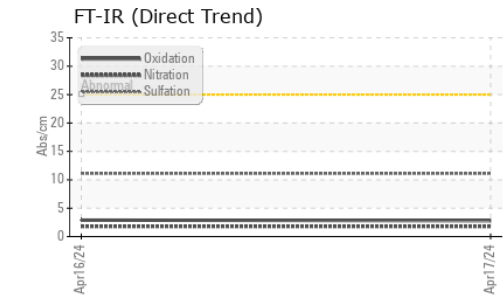
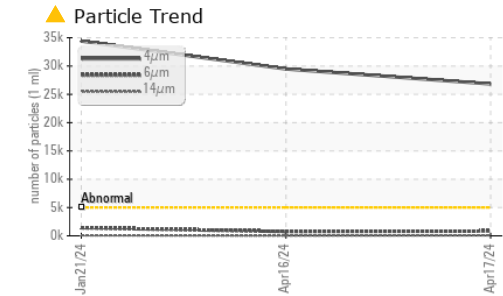
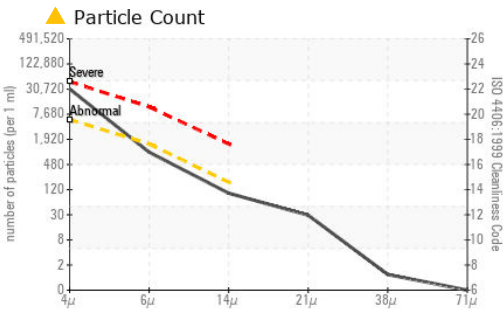
There is a high amount of silt (particulates < 6 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	5	9	3
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	---
Nitration	Abs/cm	*ASTM D7624		1.8	1.8	---
Sulfation	Abs/.1mm	*ASTM D7415		11.1	11.1	---
Particles >4µm		ASTM D7647	>5000	▲ 26828	▲ 29476	▲ 34402
Particles >6µm		ASTM D7647	>1300	828	748	● 1413
Particles >14µm		ASTM D7647	>160	87	49	85
Particles >21µm		ASTM D7647	>40	26	13	23
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/17/14	▲ 22/17/13	▲ 22/18/14
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	>0.1	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		2	2	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		84	84	83
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		0	0	1
Calcium	ppm	ASTM D5185m		49	49	57
Phosphorus	ppm	ASTM D5185m		440	435	395
Zinc	ppm	ASTM D5185m		456	458	470
Sulfur	ppm	ASTM D5185m		1243	1255	1111
Oxidation	Abs/.1mm	*ASTM D7414		2.8	2.9	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.41	0.44	0.40
Visc @ 40°C	cSt	ASTM D445		46.4	46.6	46.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0002643 **Received** : 26 Apr 2024 4049 CARSON AVE HAZELGREEN RD NE
Lab Number : 06161345 **Tested** : 29 Apr 2024 SALEM, OR
Unique Number : 10996768 **Diagnosed** : 30 Apr 2024 - Jonathan Hester US 97305
Test Package : PLANT (Additional Tests: FT-IR, ICP, KV40, OxidationStability, PQ, PrtCount, SCRTAC) **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)