



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
THROTTLE HPU
Component
Hydraulic System
Fluid
{not provided} (80 GAL)

RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Please specify the brand, type, and viscosity of the oil on your next sample. There is too much water present in this sample to perform a particle count.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PE0001864	---	---
Sample Date		Client Info		23 Feb 2024	---	---
Machine Age	mths	Client Info		0	---	---
Oil Age	mths	Client Info		2	---	---
Filter Age	mths	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

The tin level is abnormal. Additive? The iron level is abnormal.

PQ		ASTM D8184		17	---	---
Iron	ppm	ASTM D5185m	>20	▲ 46	---	---
Chromium	ppm	ASTM D5185m	>20	0	---	---
Nickel	ppm	ASTM D5185m	>20	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>20	0	---	---
Lead	ppm	ASTM D5185m	>20	0	---	---
Copper	ppm	ASTM D5185m	>20	0	---	---
Tin	ppm	ASTM D5185m	>20	▲ 313	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

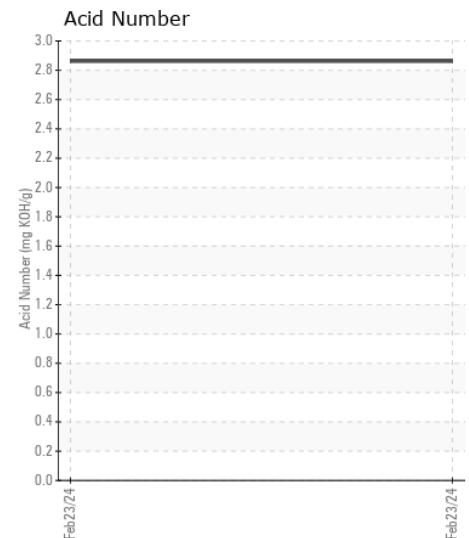
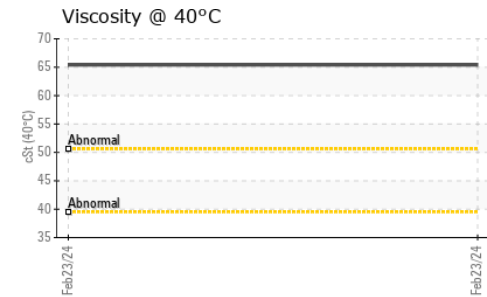
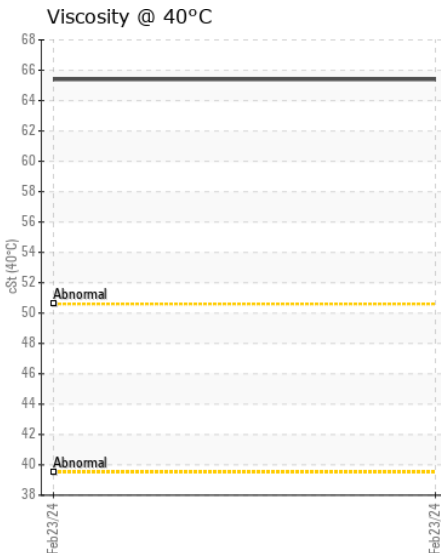
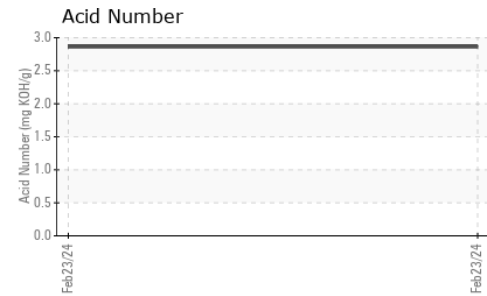
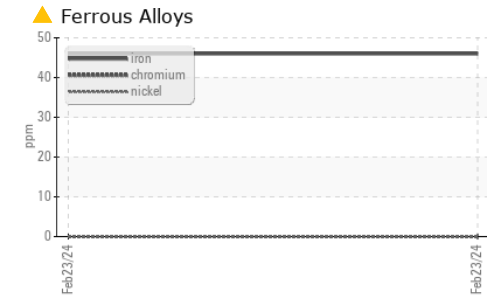
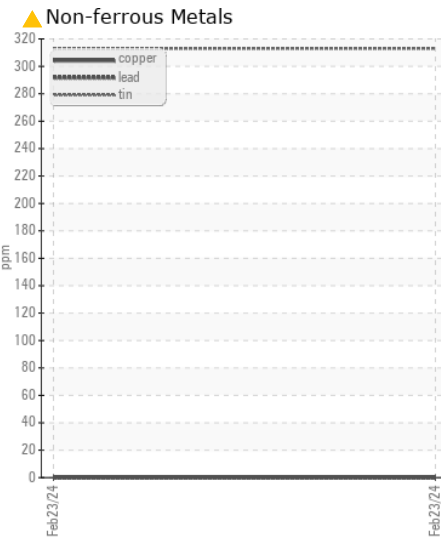
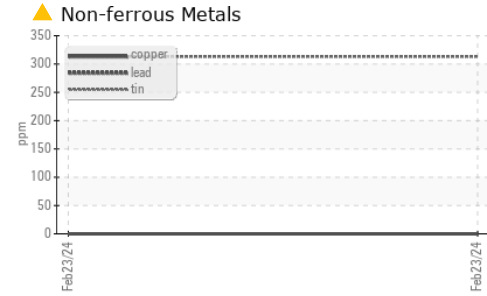
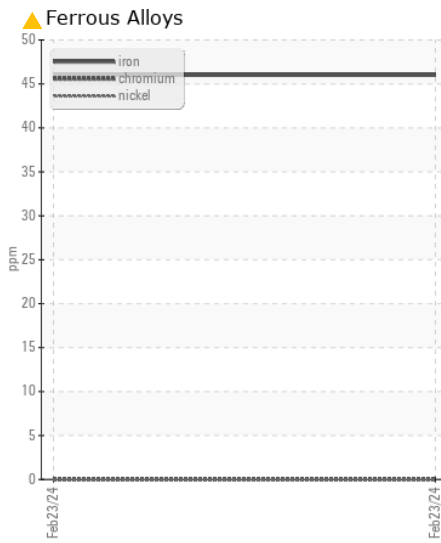
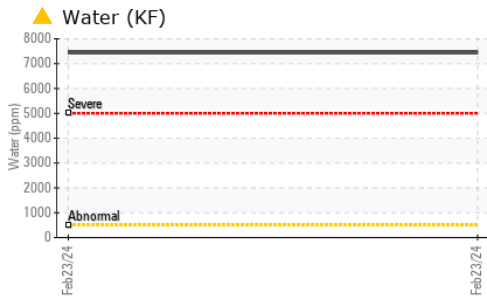
Appearance is milky. There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>15	1	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water	%	ASTM D6304	>0.05	▲ 0.744	---	---
ppm Water	ppm	ASTM D6304	>500	▲ 7440	---	---
Soot %	%	*ASTM D7844		0.2	---	---
Nitration	Abs/cm	*ASTM D7624		6.3	---	---
Sulfation	Abs/.1mm	*ASTM D7415		177.8	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	● MILKY	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.05	▲ 0.2%	---	---

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		<1	---	---
Boron	ppm	ASTM D5185m		7	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		0	---	---
Calcium	ppm	ASTM D5185m		3	---	---
Phosphorus	ppm	ASTM D5185m		125	---	---
Zinc	ppm	ASTM D5185m		4	---	---
Sulfur	ppm	ASTM D5185m		638	---	---
Oxidation	Abs/.1mm	*ASTM D7414		168.5	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		2.862	---	---
Visc @ 40°C	cSt	ASTM D445		65.4	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : PE0001864

Lab Number : 06105935

Unique Number : 10909432

Test Package : PLANT (Additional Tests: FT-IR, ICP, KF, KV40, PQ, PrtCount, SCREEN)

Received : 01 Mar 2024

Tested : 05 Mar 2024

Diagnosed : 05 Mar 2024 - Doug Bogart

FRERES ENGINEERED WOOD PRODUCTS

141 14TH ST

LYONS, OR

US 97358

Contact: GERRITT LAW

glaw@frereswood.com

T:

F:

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)