



FORENSIC
AND
SCIENTIFIC
TESTING INC.

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL
NORMAL
NORMAL

Machine Id
34706-3

Component
Transmission

Fluid
{not provided} (--- QTS)

RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		FSM1397159	---	---
Sample Date		Client Info		07 Feb 2024	---	---
Machine Age	mls	Client Info		0	---	---
Oil Age	mls	Client Info		0	---	---
Filter Age	mls	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

Gear wear is indicated. Torque converter wear is indicated.

Iron	ppm	ASTM D5185m	>200	▲ 417	---	---
Chromium	ppm	ASTM D5185m	>10	2	---	---
Nickel	ppm	ASTM D5185m		2	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>50	▲ 99	---	---
Lead	ppm	ASTM D5185m	>50	2	---	---
Copper	ppm	ASTM D5185m	>200	189	---	---
Tin	ppm	ASTM D5185m	>10	8	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

There is no indication of any contamination in the fluid.

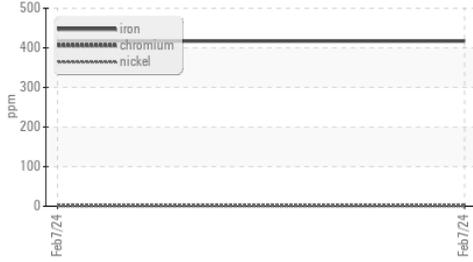
Silicon	ppm	ASTM D5185m	>50	11	---	---
Potassium	ppm	ASTM D5185m	>20	5	---	---
Water		WC Method	>0.1	NEG	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---

FLUID CONDITION

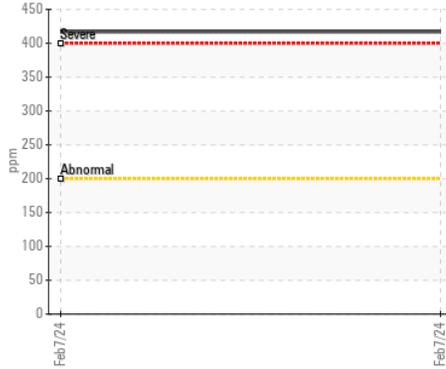
The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		11	---	---
Boron	ppm	ASTM D5185m		28	---	---
Barium	ppm	ASTM D5185m		3	---	---
Molybdenum	ppm	ASTM D5185m		2	---	---
Manganese	ppm	ASTM D5185m		37	---	---
Magnesium	ppm	ASTM D5185m		14	---	---
Calcium	ppm	ASTM D5185m		115	---	---
Phosphorus	ppm	ASTM D5185m		182	---	---
Zinc	ppm	ASTM D5185m		44	---	---
Sulfur	ppm	ASTM D5185m		1653	---	---
Visc @ 40°C	cSt	ASTM D445		26.46	---	---

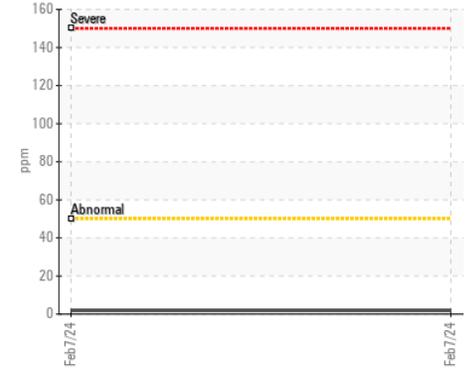
▲ Ferrous Alloys



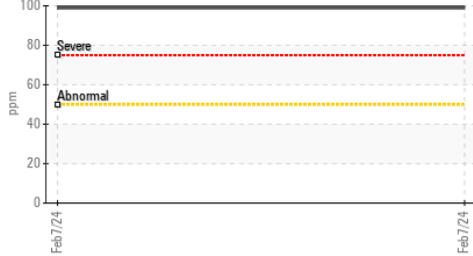
▲ Iron (ppm)



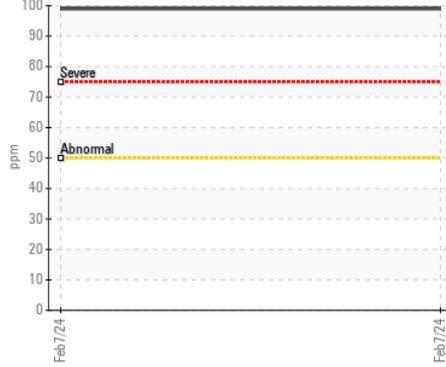
▲ Lead (ppm)



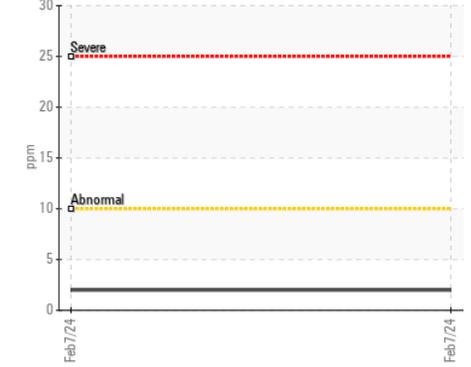
▲ Aluminum (ppm)



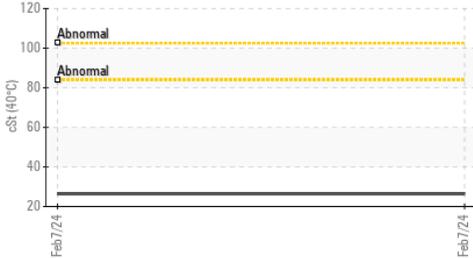
▲ Aluminum (ppm)



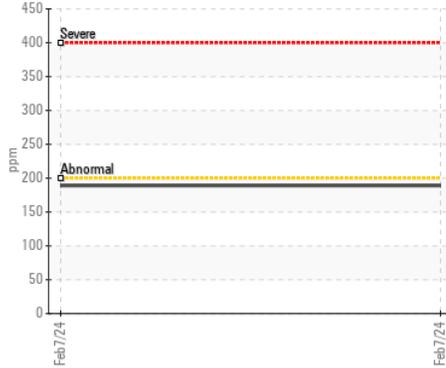
▲ Chromium (ppm)



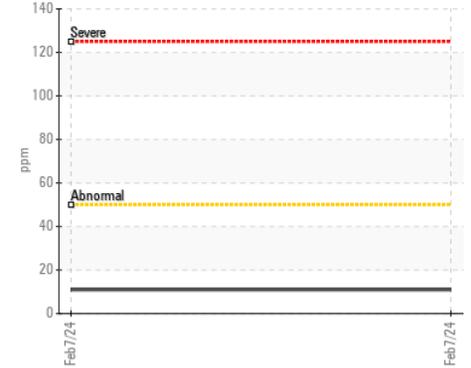
▲ Viscosity @ 40°C



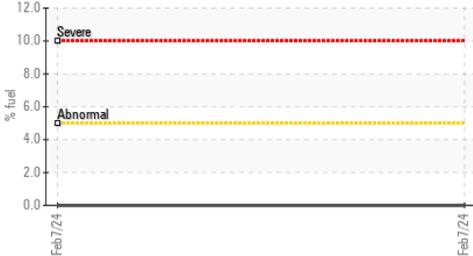
▲ Copper (ppm)



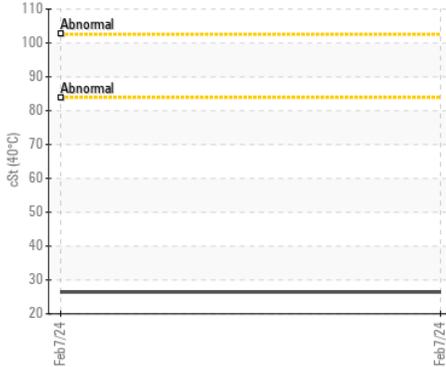
▲ Silicon (ppm)



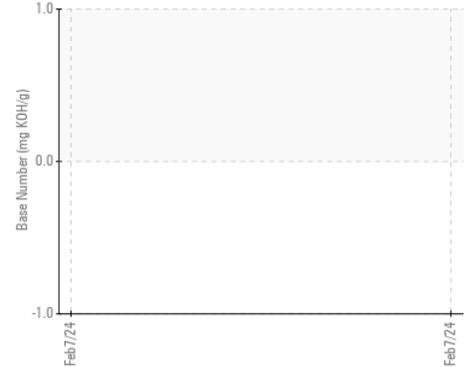
▲ Fuel Dilution



▲ Viscosity @ 40°C



▲ Base Number



▲ Base Number



Certificate L2367

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

Sample No. : FSM1397159

Lab Number : 06084158

Unique Number : 10871603

Test Package : MOB 1 (Additional Tests: FT-IR, FuelDilution, KV100, PercentFuel, TBN, VI)

Received : 08 Feb 2024

Tested : 13 Feb 2024

Diagnosed : 13 Feb 2024 - Jonathan Hester

FORENSIC & SCIENTIFIC TESTING

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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)