



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
6033
Component
Rear Differential
Fluid
TDTO FLUID SAE 30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0195377	JR0159954	---
Sample Date		Client Info		29 Feb 2024	27 Apr 2023	---
Machine Age	hrs	Client Info		4361	3990	---
Oil Age	hrs	Client Info		1000	2000	---
Filter Age	hrs	Client Info		1000	2000	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		35	45	---
Iron	ppm	ASTM D5185m	>500	37	120	---
Chromium	ppm	ASTM D5185m	>3	<1	1	---
Nickel	ppm	ASTM D5185m	>3	<1	<1	---
Titanium	ppm	ASTM D5185m	>2	<1	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>30	2	1	---
Lead	ppm	ASTM D5185m	>13	<1	1	---
Copper	ppm	ASTM D5185m	>103	10	36	---
Tin	ppm	ASTM D5185m	>5	1	3	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

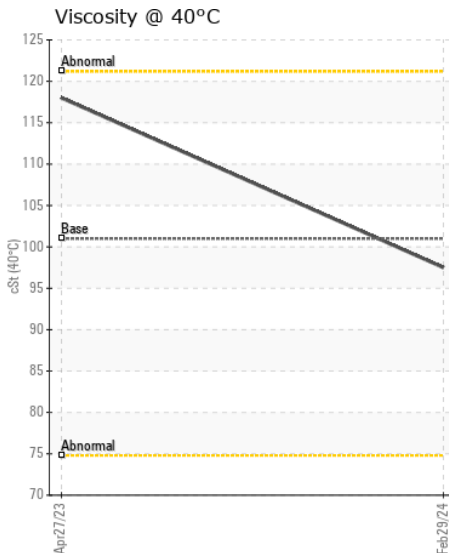
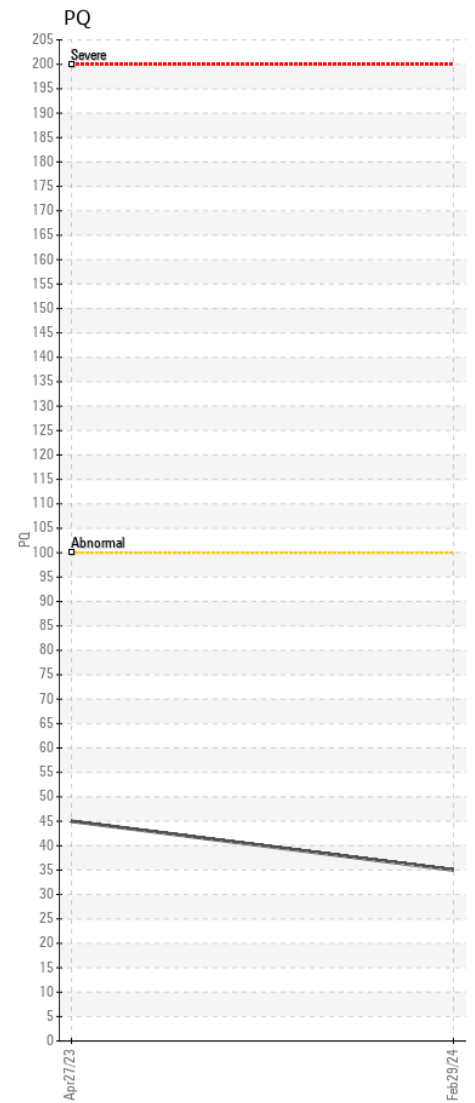
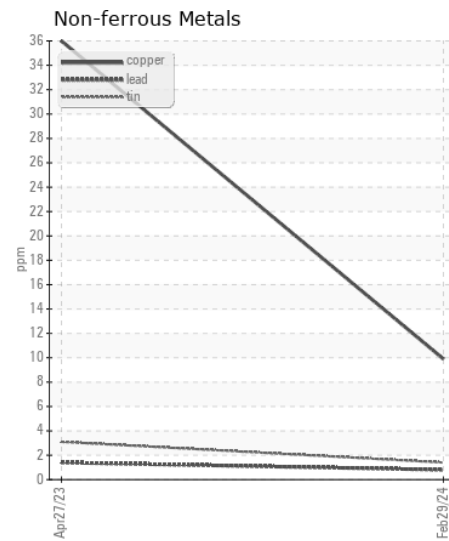
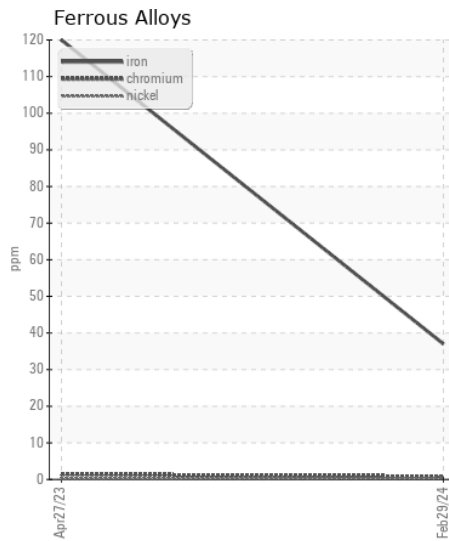
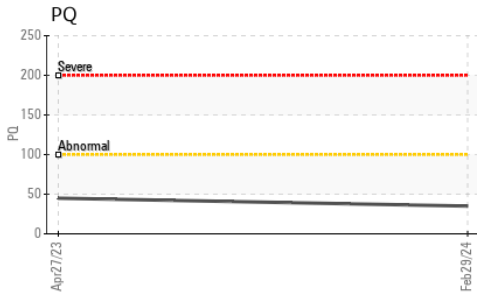
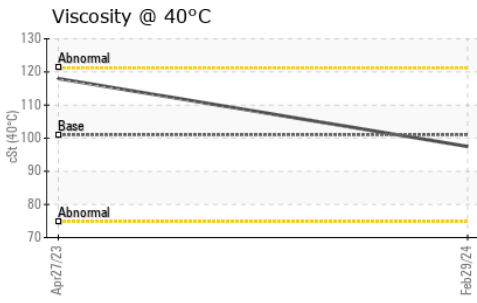
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	10	19	---
Potassium	ppm	ASTM D5185m	>20	2	2	---
Water		WC Method	>.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	4	---
Boron	ppm	ASTM D5185m	37	14	24	---
Barium	ppm	ASTM D5185m	7	0	2	---
Molybdenum	ppm	ASTM D5185m	5	<1	<1	---
Manganese	ppm	ASTM D5185m		1	2	---
Magnesium	ppm	ASTM D5185m	40	9	12	---
Calcium	ppm	ASTM D5185m	2650	2974	2773	---
Phosphorus	ppm	ASTM D5185m	1050	1024	994	---
Zinc	ppm	ASTM D5185m	1075	1182	1176	---
Sulfur	ppm	ASTM D5185m	5750	8511	7038	---
Visc @ 40°C	cSt	ASTM D445	101	97.5	118	---



Certificate L2367

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

Sample No. : JR0195377

Lab Number : 06123934

Unique Number : 10938085

Test Package : CONST (Additional Tests: PQ)

Received : 20 Mar 2024

Tested : 21 Mar 2024

Diagnosed : 21 Mar 2024 - Wes Davis

PATRIOT DEVELOPMENT CORP

22721 LADBROOK DRIVE STE 120

STERLING, VA

US 20166

Contact: ROBERT MOSS

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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)