



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
GM Renton Dump Truck Shop
 Machine Id
[GM Renton Dump Truck Shop] S12-551
 Component
Transmission (Auto)
 Fluid
BP AUTRAN SYN 295 (--- 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		PE0002335	PE12290217	---
Sample Date		Client Info		04 Dec 2023	16 Apr 2022	---
Machine Age	hrs	Client Info		1782	1852	---
Oil Age	hrs	Client Info		1782	1852	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Chngd	Not Chngd	---
Filter Changed		Client Info		Not Chngd	---	---
Sample Status				ABNORMAL	SEVERE	---

WEAR

The aluminum level is abnormal. Clutch wear is indicated.

PQ		ASTM D8184	>50	33	---	---
Iron	ppm	ASTM D5185m	>160	139	73	---
Chromium	ppm	ASTM D5185m	>5	<1	0	---
Nickel	ppm	ASTM D5185m	>5	<1	2	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>5	0	<1	---
Aluminum	ppm	ASTM D5185m	>50	▲ 68	35	---
Lead	ppm	ASTM D5185m	>50	▲ 204	88	---
Copper	ppm	ASTM D5185m	>225	18	8	---
Tin	ppm	ASTM D5185m	>10	3	5	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

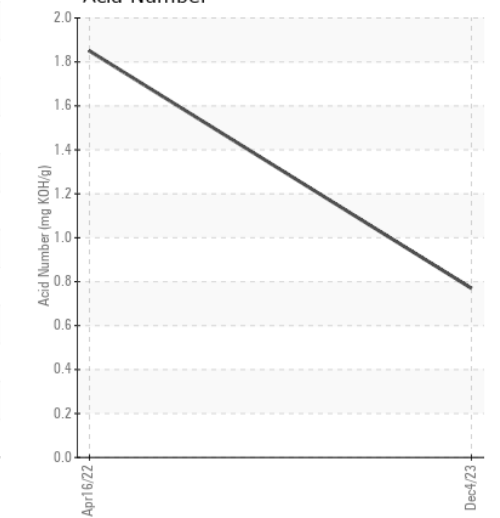
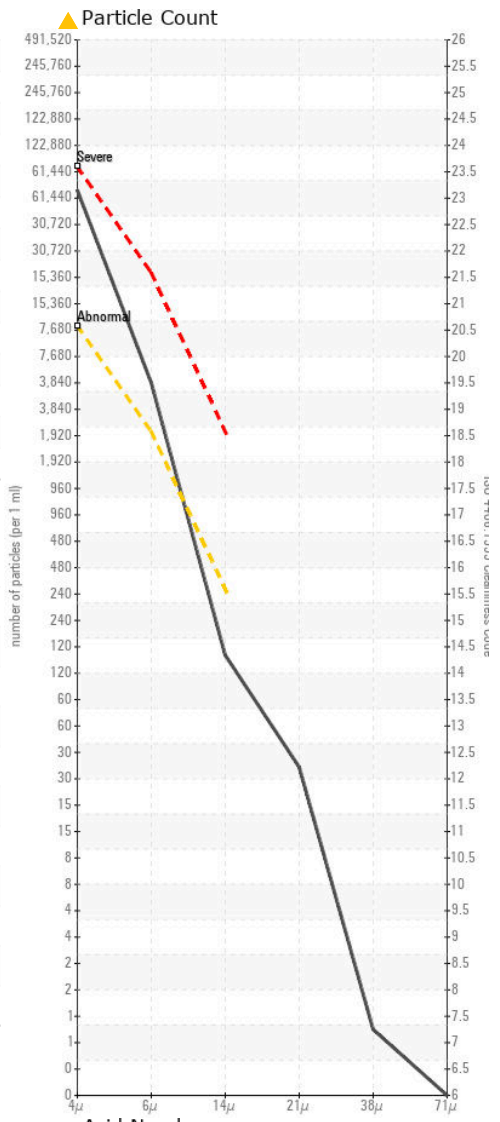
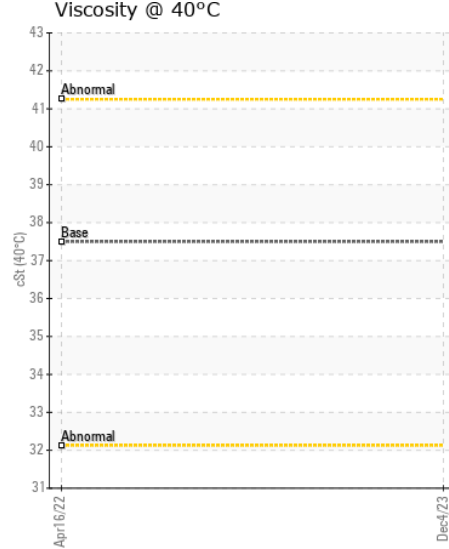
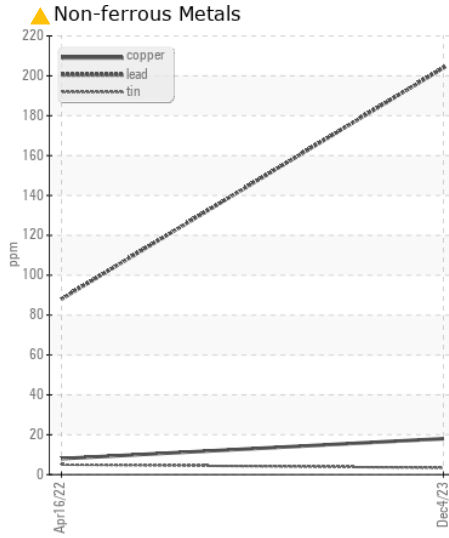
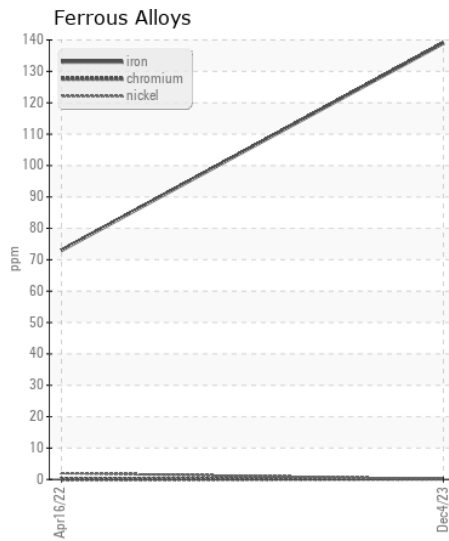
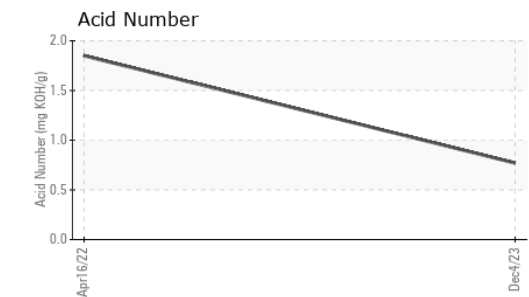
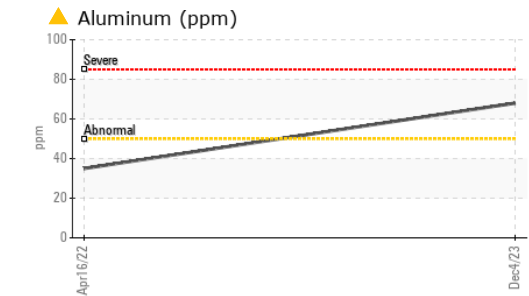
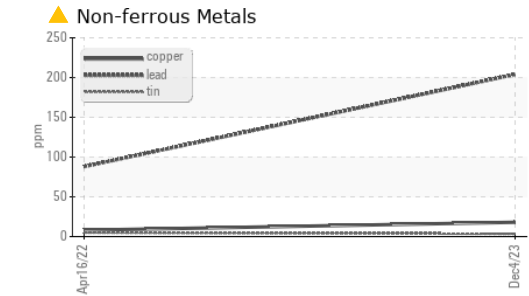
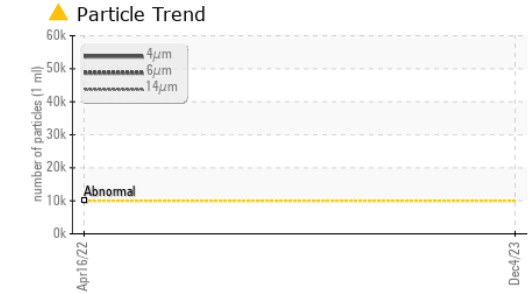
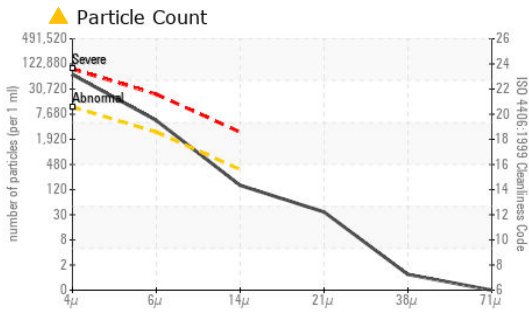
There is a high amount of silt (particulates < 14 microns in size) present in the fluid.

Silicon	ppm	ASTM D5185m	>20	11	5	---
Potassium	ppm	ASTM D5185m	>20	3	1	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>10000	▲ 59018	---	---
Particles >6µm		ASTM D7647	>2500	▲ 4737	---	---
Particles >14µm		ASTM D7647	>320	134	---	---
Particles >21µm		ASTM D7647	>80	31	---	---
Particles >38µm		ASTM D7647	>20	1	---	---
Particles >71µm		ASTM D7647	>4	0	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ 23/19/14	21/17/13	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
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 AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

Sodium	ppm	ASTM D5185m		6	7	---
Boron	ppm	ASTM D5185m		19	37	---
Barium	ppm	ASTM D5185m		0	1	---
Molybdenum	ppm	ASTM D5185m		<1	0	---
Manganese	ppm	ASTM D5185m		2	---	---
Magnesium	ppm	ASTM D5185m		<1	1	---
Calcium	ppm	ASTM D5185m		54	37	---
Phosphorus	ppm	ASTM D5185m		297	241	---
Zinc	ppm	ASTM D5185m		63	68	---
Sulfur	ppm	ASTM D5185m		905	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.77	1.85	---
Visc @ 40°C	cSt	ASTM D445	37.5	35.1	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0002335 **Received** : 12 Jan 2024
Lab Number : 06060123 **Diagnosed** : 16 Jan 2024
Unique Number : 10831505 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)

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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)