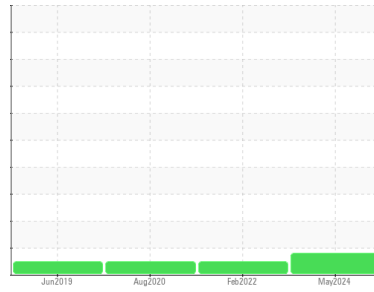




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

GM Renton Dump Truck Shop

Machine Id

[GM Renton Dump Truck Shop] s14-304

Component

Transmission (Auto)

Fluid

BP AUTRAN SYN 295 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PE0003133	PE12290227	PE12290366
Sample Date	Client Info			02 May 2024	01 Feb 2022	14 Aug 2020
Machine Age	hrs	Client Info		5642	241	3821
Oil Age	hrs	Client Info		5642	4883	3821
Oil Changed	Client Info			Changed	Not Changd	Not Changd
Sample Status				ATTENTION	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	NEG	NEG	NEG

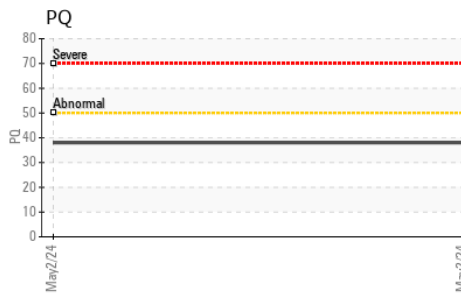
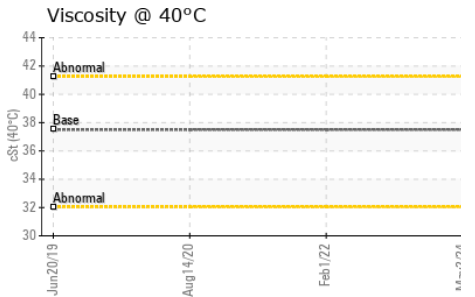
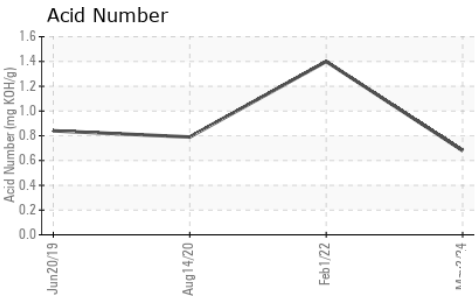
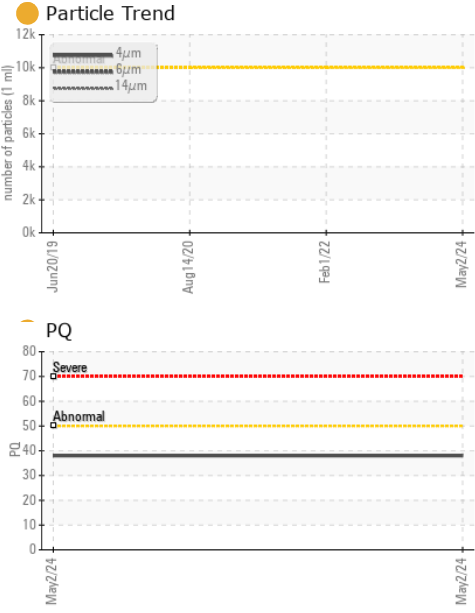
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	38	---	---
Iron	ppm	ASTM D5185m	>160	209	211	220
Chromium	ppm	ASTM D5185m	>5	<1	1	1
Nickel	ppm	ASTM D5185m	>5	<1	1	1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	0	<1	<1
Aluminum	ppm	ASTM D5185m	>50	60	57	46
Lead	ppm	ASTM D5185m	>50	97	101	123
Copper	ppm	ASTM D5185m	>225	16	16	17
Tin	ppm	ASTM D5185m	>10	3	3	1
Antimony	ppm	ASTM D5185m		---	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		23	28	17
Barium	ppm	ASTM D5185m		2	1	1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		3	---	---
Magnesium	ppm	ASTM D5185m		2	0	1
Calcium	ppm	ASTM D5185m		97	37	42
Phosphorus	ppm	ASTM D5185m		265	234	229
Zinc	ppm	ASTM D5185m		83	70	79
Sulfur	ppm	ASTM D5185m		522	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	10	8	5
Sodium	ppm	ASTM D5185m		8	8	5
Potassium	ppm	ASTM D5185m	>20	3	3	3

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	11814	---	---
Particles >6µm		ASTM D7647	>2500	1492	---	---
Particles >14µm		ASTM D7647	>320	31	---	---
Particles >21µm		ASTM D7647	>80	2	---	---
Particles >38µm		ASTM D7647	>20	0	---	---
Particles >71µm		ASTM D7647	>4	0	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	21/18/12	23/19/11	23/20/12

OIL ANALYSIS REPORT



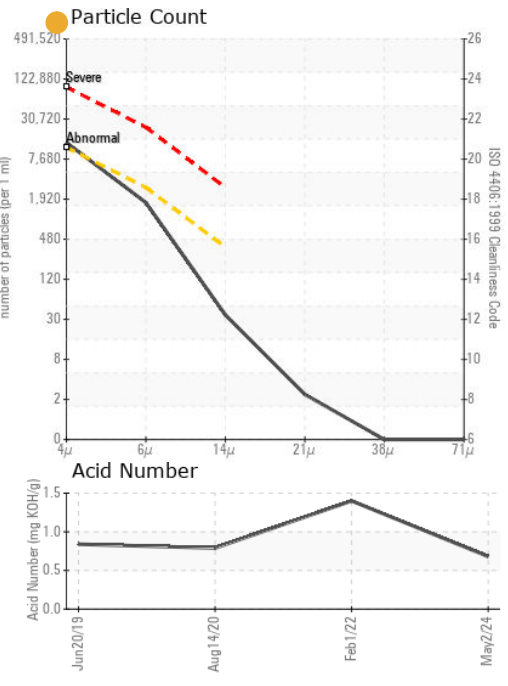
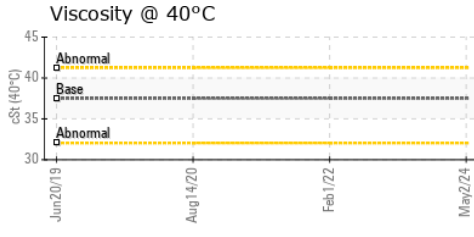
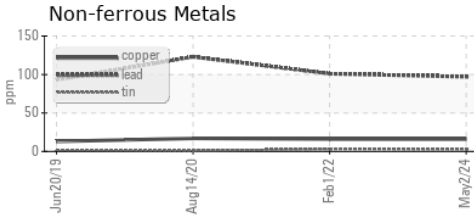
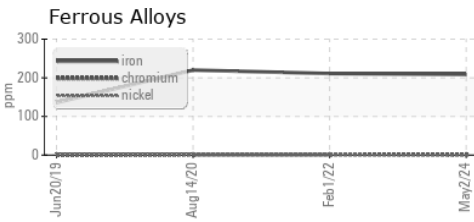
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.68	1.40	0.79

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
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	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	37.5	36.8	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0003133 **Received** : 14 Jun 2024
Lab Number : **06210678** **Tested** : 20 Jun 2024
Unique Number : 11083542 **Diagnosed** : 20 Jun 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)

Gary Merlino Construction - Off Road Shop
 9125 10TH AVE SOUTH
 SEATTLE, WA
 US 98108
 Contact: Zack
 oilsamples@gmccinc.com

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)