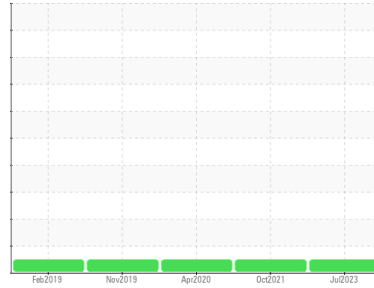




# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Area  
**GM Renton Dump Truck Shop**  
 Machine Id  
**[GM Renton Dump Truck Shop] S12-219**  
 Component  
**Transmission (Auto)**  
 Fluid  
**BP AUTRAN SYN 295 (--- GAL)**

### DIAGNOSIS

**Recommendation**  
 Resample at the next service interval to monitor.

**Wear**  
 All component wear rates are normal.

**Contamination**  
 The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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			<b>PE0001226</b>	PE12290232	PE12290390
Sample Date	Client Info			<b>01 Jul 2023</b>	27 Oct 2021	23 Apr 2020
Machine Age	hrs	Client Info		<b>6725</b>	4888	3089
Oil Age	hrs	Client Info		<b>6725</b>	4888	3089
Oil Changed	Client Info			<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	<b>35</b>	---	---
Iron	ppm	ASTM D5185m	>160	<b>150</b>	120	104
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>50	<b>65</b>	36	27
Lead	ppm	ASTM D5185m	>50	<b>102</b>	121	130
Copper	ppm	ASTM D5185m	>225	<b>22</b>	16	15
Tin	ppm	ASTM D5185m	>10	<b>4</b>	1	3
Antimony	ppm	ASTM D5185m		<b>---</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

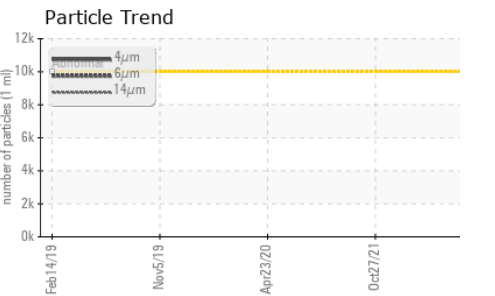
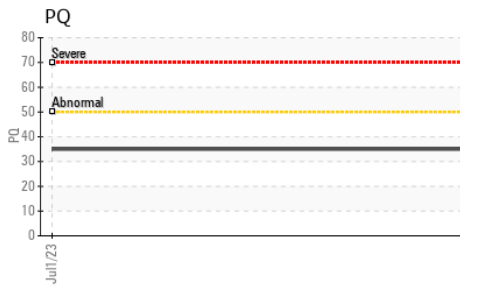
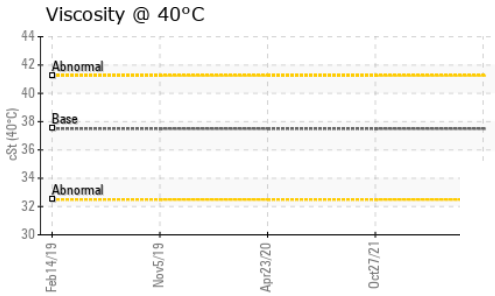
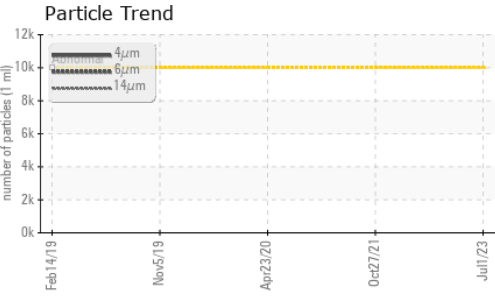
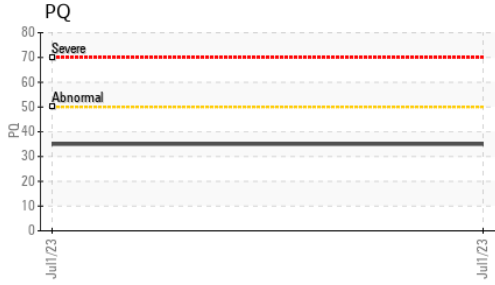
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>10</b>	23	8
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	1
Manganese	ppm	ASTM D5185m		<b>2</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>0</b>	0	0
Calcium	ppm	ASTM D5185m		<b>49</b>	27	31
Phosphorus	ppm	ASTM D5185m		<b>191</b>	189	177
Zinc	ppm	ASTM D5185m		<b>23</b>	37	48
Sulfur	ppm	ASTM D5185m		<b>627</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>9</b>	6	8
Sodium	ppm	ASTM D5185m		<b>8</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>3721</b>	---	---
Particles >6µm		ASTM D7647	>2500	<b>534</b>	---	---
Particles >14µm		ASTM D7647	>320	<b>27</b>	---	---
Particles >21µm		ASTM D7647	>80	<b>6</b>	---	---
Particles >38µm		ASTM D7647	>20	<b>1</b>	---	---
Particles >71µm		ASTM D7647	>4	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>19/16/12</b>	20/16/11	15/14/12

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.74</b>	0.90	0.67

# OIL ANALYSIS REPORT



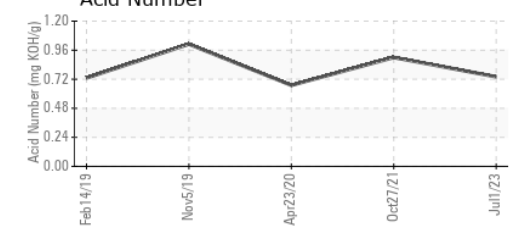
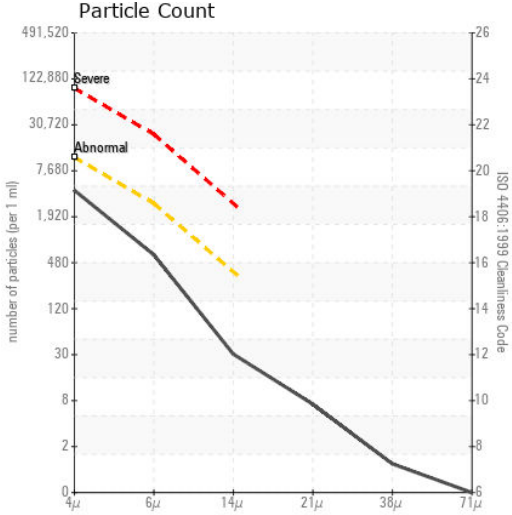
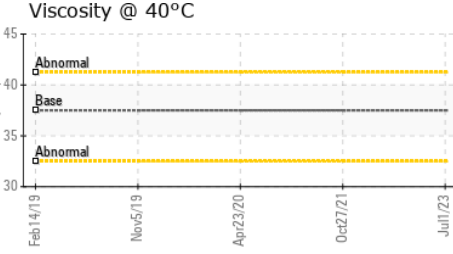
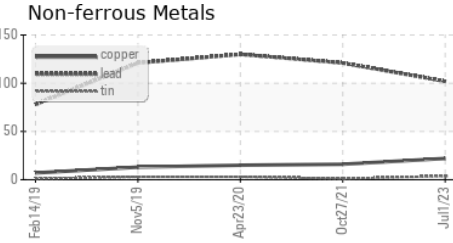
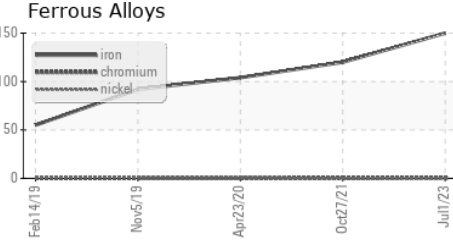
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	36.2	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PE0001226 **Received** : 20 Jul 2023  
**Lab Number** : 05903701 **Diagnosed** : 24 Jul 2023  
**Unique Number** : 10565057 **Diagnostician** : Don Baldrige  
**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

Certificate L2367  
 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)