

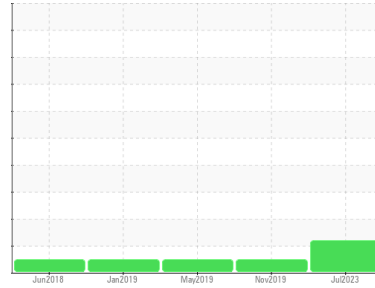
# PROBLEM SUMMARY

## Sample Rating Trend

ISO

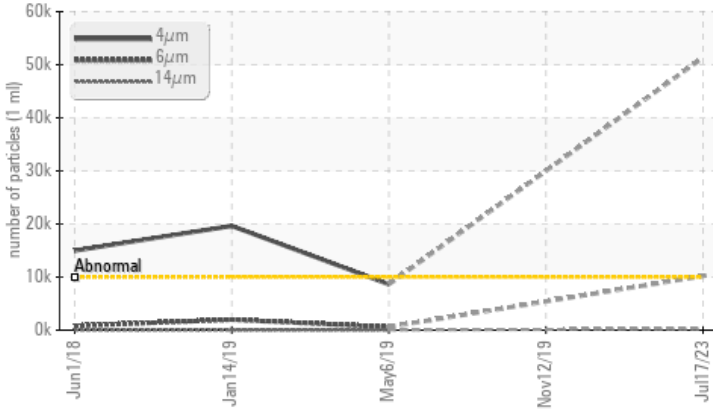


Area  
**GM Seattle Off Raod Shop**  
 Machine Id  
**[GM Seattle Off Raod Shop] 26-523**  
 Component  
**Transmission (Auto)**  
 Fluid  
**BP AUTRAN SYN 295 (--- GAL)**



## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

No corrective action is recommended at this time.  
 Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	NORMAL
Particles >4µm	ASTM D7647	>10000	▲ 51348	---	8641
Particles >6µm	ASTM D7647	>2500	▲ 10206	---	605
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 23/21/15	14/13/10	20/16/12

Customer Id: GARSEA  
 Sample No.: PE0002184  
 Lab Number: 05922791  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 12 Nov 2019 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the fluid. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

view report



### 06 May 2019 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the fluid. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

view report



### 14 Jan 2019 Diag: Wes Davis

NORMAL

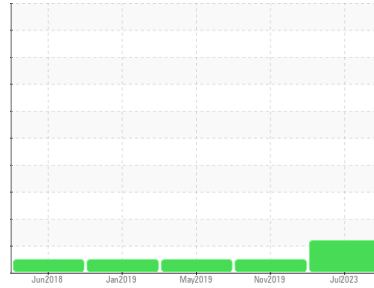


Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the fluid. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

view report



Area  
**GM Seattle Off Raod Shop**  
 Machine Id  
**[GM Seattle Off Raod Shop] 26-523**  
 Component  
**Transmission (Auto)**  
 Fluid  
**BP AUTRAN SYN 295 (--- GAL)**



## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 14 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	<b>PE0002184</b>	PE12291793	PE12291994
Sample Date	Client Info	<b>17 Jul 2023</b>	12 Nov 2019	06 May 2019
Machine Age	hrs	<b>7662</b>	5650	4676
Oil Age	hrs	<b>2986</b>	974	1505
Oil Changed	Client Info	<b>Not Chngd</b>	Not Chngd	Changed
Sample Status		<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184 >50	<b>35</b>	---	---
Iron	ppm ASTM D5185m >160	<b>89</b>	46	77
Chromium	ppm ASTM D5185m >5	<b>0</b>	0	0
Nickel	ppm ASTM D5185m >5	<b>0</b>	0	0
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>20</b>	10	13
Lead	ppm ASTM D5185m >50	<b>100</b>	48	99
Copper	ppm ASTM D5185m >225	<b>9</b>	6	8
Tin	ppm ASTM D5185m >10	<b>2</b>	1	0
Antimony	ppm ASTM D5185m	<b>---</b>	0	---
Vanadium	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>20</b>	37	22
Barium	ppm ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m	<b>0</b>	0	0
Manganese	ppm ASTM D5185m	<b>1</b>	---	---
Magnesium	ppm ASTM D5185m	<b>0</b>	1	0
Calcium	ppm ASTM D5185m	<b>37</b>	36	44
Phosphorus	ppm ASTM D5185m	<b>233</b>	255	295
Zinc	ppm ASTM D5185m	<b>57</b>	59	113
Sulfur	ppm ASTM D5185m	<b>617</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	<b>3</b>	2	5
Sodium	ppm ASTM D5185m	<b>2</b>	6	2
Potassium	ppm ASTM D5185m >20	<b>0</b>	0	5

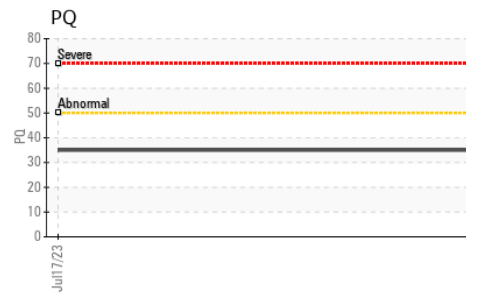
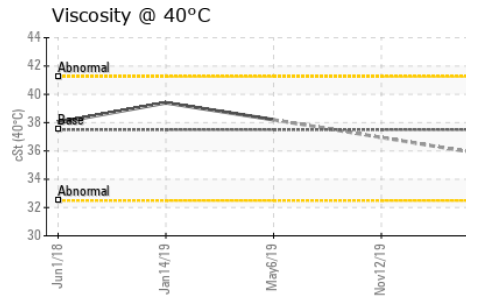
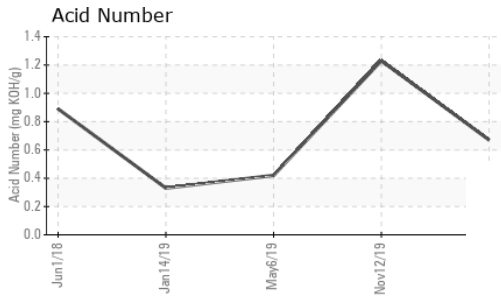
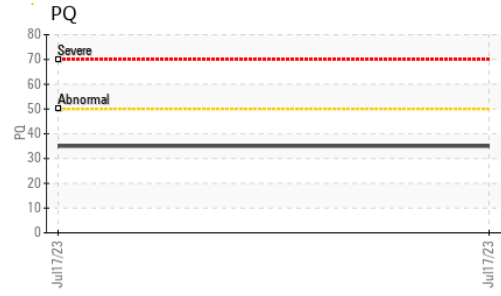
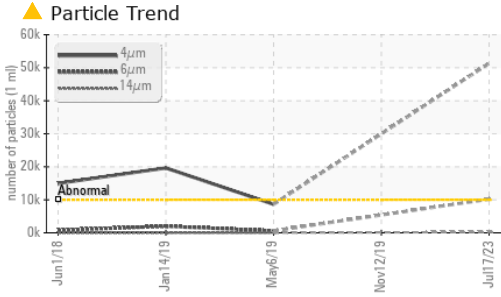
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>▲ 51348</b>	---	8641
Particles >6µm	ASTM D7647 >2500	<b>▲ 10206</b>	---	605
Particles >14µm	ASTM D7647 >320	<b>238</b>	---	26
Particles >21µm	ASTM D7647 >80	<b>33</b>	---	8
Particles >38µm	ASTM D7647 >20	<b>1</b>	---	2
Particles >71µm	ASTM D7647 >4	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >20/18/15	<b>▲ 23/21/15</b>	14/13/10	20/16/12

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	<b>0.67</b>	1.23	0.42

# OIL ANALYSIS REPORT

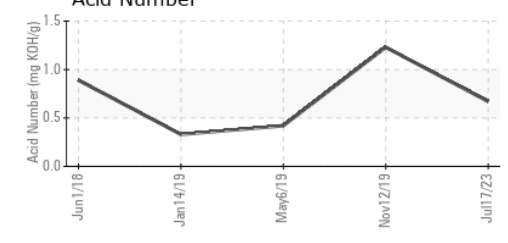
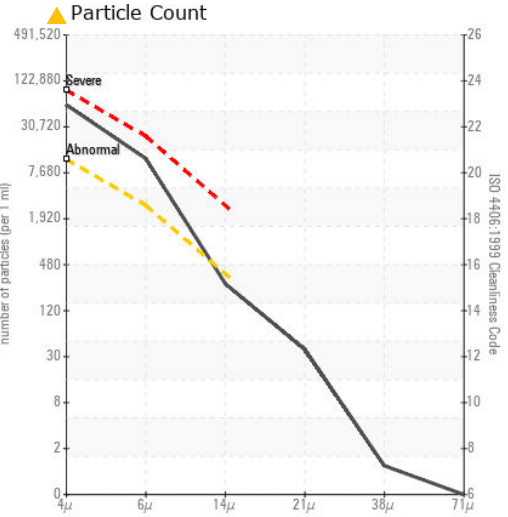
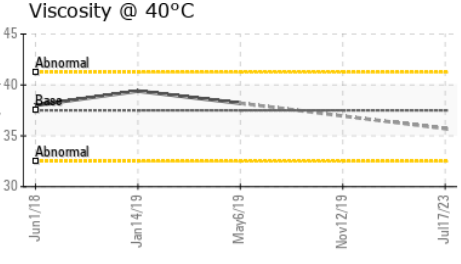
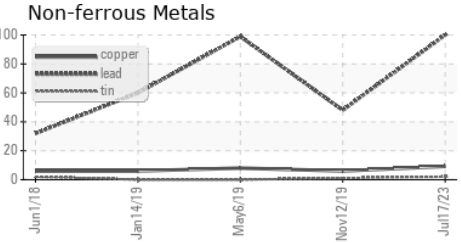
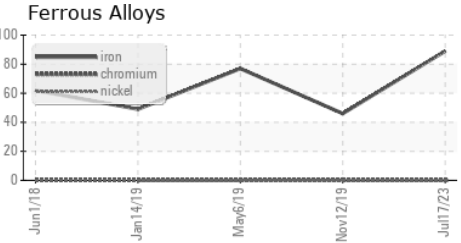


VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
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	35.7	---	38.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PE0002184 **Received** : 11 Aug 2023  
**Lab Number** : 05922791 **Diagnosed** : 14 Aug 2023  
**Unique Number** : 10602738 **Diagnostician** : Doug Bogart  
**Test Package** : CONST ( Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN )  
 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)

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