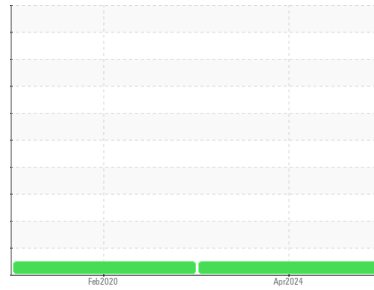




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**GM Seattle Off Road Shop**  
 Machine Id  
**[GM Seattle Off Road Shop] 24-844**  
 Component  
**Hydraulic System**  
 Fluid  
**ISO 46 (--- GAL)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

#### Fluid Condition

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

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PE0003125</b>	PE12291681	---
Sample Date	Client Info	<b>29 Apr 2024</b>	10 Feb 2020	---
Machine Age	hrs Client Info	<b>3895</b>	1958	---
Oil Age	hrs Client Info	<b>3895</b>	1958	---
Oil Changed	Client Info	<b>Not Chngd</b>	Not Chngd	---
Sample Status		<b>NORMAL</b>	NORMAL	---

### CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	<b>NEG</b>	NEG	---

### WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	<b>22</b>	---	---
Iron	ppm ASTM D5185m >20	<b>9</b>	5	---
Chromium	ppm ASTM D5185m >10	<b>&lt;1</b>	1	---
Nickel	ppm ASTM D5185m >10	<b>0</b>	0	---
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm ASTM D5185m	<b>0</b>	<1	---
Aluminum	ppm ASTM D5185m >10	<b>2</b>	1	---
Lead	ppm ASTM D5185m >10	<b>3</b>	2	---
Copper	ppm ASTM D5185m >75	<b>5</b>	7	---
Tin	ppm ASTM D5185m >10	<b>0</b>	0	---
Antimony	ppm ASTM D5185m	<b>---</b>	0	---
Vanadium	ppm ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm ASTM D5185m	<b>0</b>	---	---

### ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>&lt;1</b>	0	---
Barium	ppm ASTM D5185m	<b>1</b>	0	---
Molybdenum	ppm ASTM D5185m	<b>0</b>	1	---
Manganese	ppm ASTM D5185m	<b>0</b>	---	---
Magnesium	ppm ASTM D5185m	<b>3</b>	6	---
Calcium	ppm ASTM D5185m	<b>51</b>	64	---
Phosphorus	ppm ASTM D5185m	<b>305</b>	294	---
Zinc	ppm ASTM D5185m	<b>203</b>	197	---
Sulfur	ppm ASTM D5185m	<b>801</b>	---	---

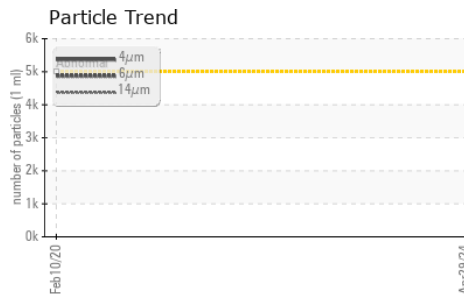
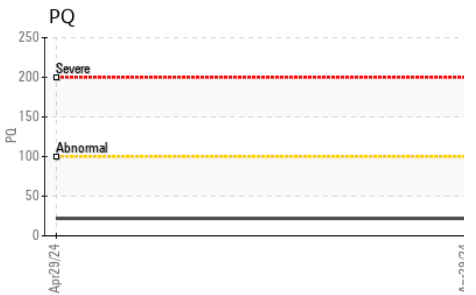
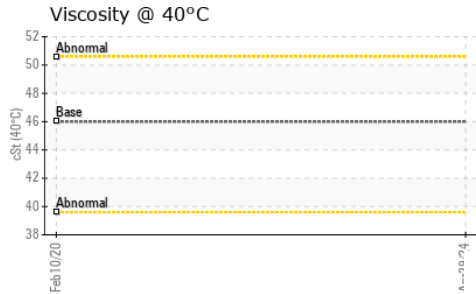
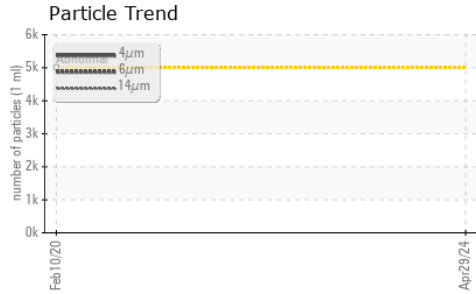
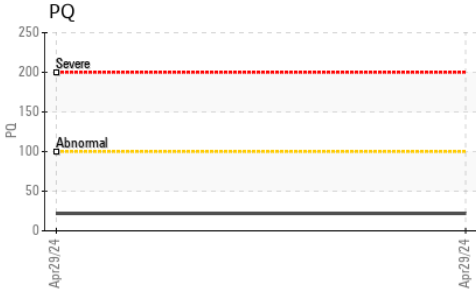
### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	<b>3</b>	3	---
Sodium	ppm ASTM D5185m	<b>0</b>	1	---
Potassium	ppm ASTM D5185m >20	<b>1</b>	0	---

### FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>1529</b>	---	---
Particles >6µm	ASTM D7647 >1300	<b>130</b>	---	---
Particles >14µm	ASTM D7647 >160	<b>10</b>	---	---
Particles >21µm	ASTM D7647 >40	<b>1</b>	---	---
Particles >38µm	ASTM D7647 >10	<b>0</b>	---	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>18/14/10</b>	19/18/15	---

# OIL ANALYSIS REPORT



FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.17</b>	0.28	---

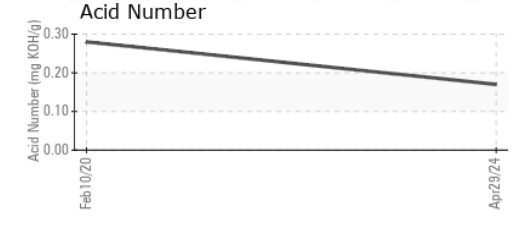
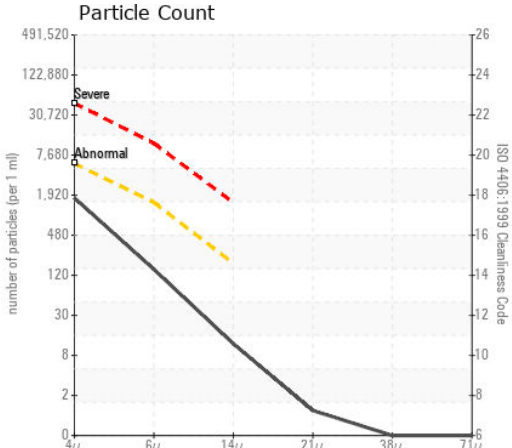
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	46.0	<b>43.5</b>	---

### SAMPLE IMAGES

	method	limit/base	current	history1	history2
Color					
Bottom					

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PE0003125      **Received** : 14 Jun 2024  
**Lab Number** : **06210679**      **Tested** : 18 Jun 2024  
**Unique Number** : 11083543      **Diagnosed** : 20 Jun 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN )

**Gary Merlino Construction - Off Road Shop**  
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 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)