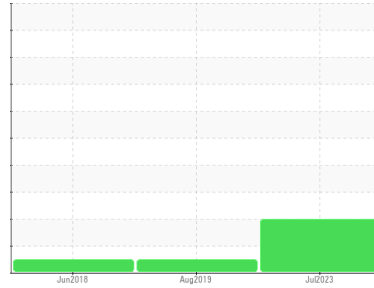


# PROBLEM SUMMARY

Sample Rating Trend



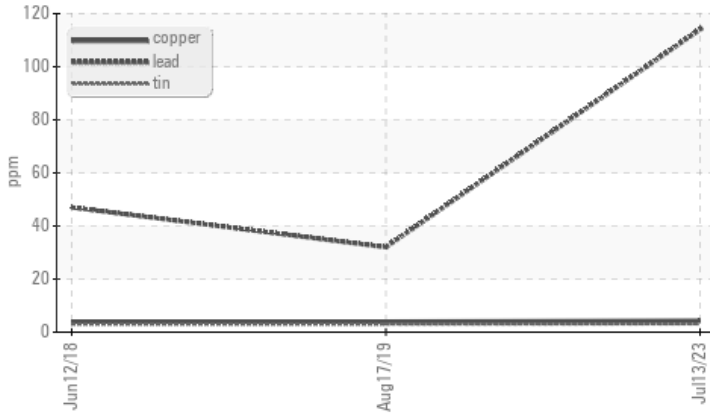
**VISUAL METAL**



Area  
**GM Seattle Off Raod Shop**  
 Machine Id  
**[GM Seattle Off Raod Shop] 26-525**  
 Component  
**Transmission (Auto)**  
 Fluid  
**CHEVRON SYN ATF HD (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Non-ferrous Metals



## RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	NORMAL
Lead	ppm	ASTM D5185m	>50	▲ <b>114</b>	32	47
White Metal	scalar	*Visual	NONE	▲ <b>MODER</b>	---	---

Customer Id: GARSEA  
 Sample No.: PE0001400  
 Lab Number: 05903700  
 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

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

### 17 Aug 2019 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. 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



### 12 Jun 2018 Diag: Wes Davis

NORMAL

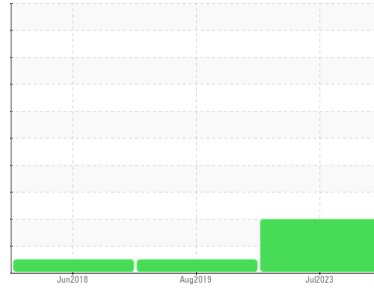


Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

view report



Area  
**GM Seattle Off Raod Shop**  
 Machine Id  
**[GM Seattle Off Raod Shop] 26-525**  
 Component  
**Transmission (Auto)**  
 Fluid  
**CHEVRON SYN ATF HD (--- GAL)**



**DIAGNOSIS**

**Recommendation**

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

**Wear**

The lead level is abnormal. Moderate concentration of visible metal present. All other component wear rates are normal.

**Contamination**

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 acceptable for the time in service.

**SAMPLE INFORMATION**

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PE0001400</b>	PE12291831	PE12292408
Sample Date	Client Info	<b>13 Jul 2023</b>	17 Aug 2019	12 Jun 2018
Machine Age	hrs	<b>4803</b>	2905	1950
Oil Age	hrs	<b>2853</b>	955	1950
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>86</b>	44	66
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</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>25</b>	9	8
Lead	ppm	ASTM D5185m	>50	<b>▲ 114</b>	32	47
Copper	ppm	ASTM D5185m	>225	<b>4</b>	4	4
Tin	ppm	ASTM D5185m	>10	<b>3</b>	3	3
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>24</b>	51	68
Barium	ppm	ASTM D5185m		<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>0</b>	0	0
Calcium	ppm	ASTM D5185m		<b>70</b>	37	52
Phosphorus	ppm	ASTM D5185m		<b>244</b>	256	322
Zinc	ppm	ASTM D5185m		<b>32</b>	20	17
Sulfur	ppm	ASTM D5185m		<b>667</b>	---	---

**CONTAMINANTS**

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>20	<b>4</b>	0	4
Sodium	ppm	ASTM D5185m		<b>2</b>	2	8
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	0

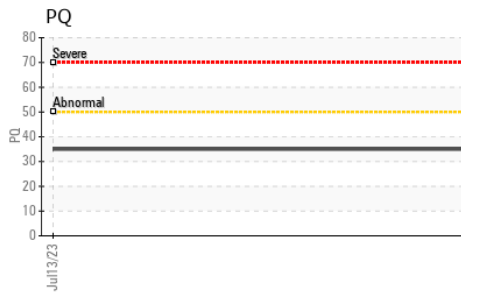
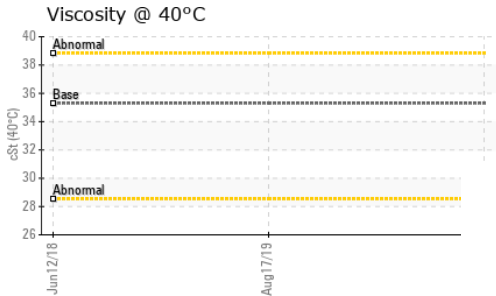
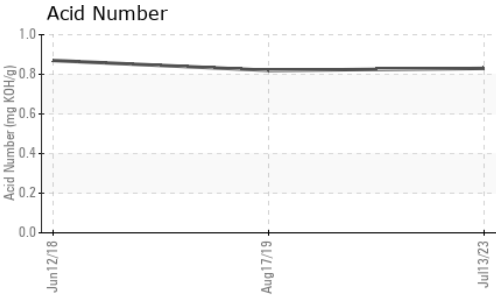
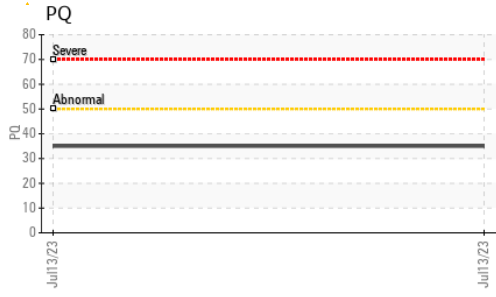
**FLUID CLEANLINESS**

method	limit/base	current	history1	history2		
Particles >4µm	ASTM D7647	>10000	---	<b>---</b>	12067	13309
Particles >6µm	ASTM D7647	>2500	---	<b>---</b>	843	791
Particles >14µm	ASTM D7647	>320	---	<b>---</b>	39	14
Particles >21µm	ASTM D7647	>80	---	<b>---</b>	15	---
Particles >38µm	ASTM D7647	>20	---	<b>---</b>	3	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	---	<b>---</b>	21/17/12	21/17/11

**FLUID DEGRADATION**

method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.83</b>	0.82	0.87

# OIL ANALYSIS REPORT



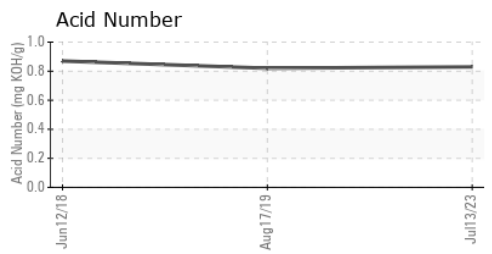
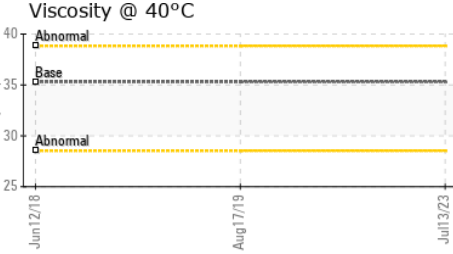
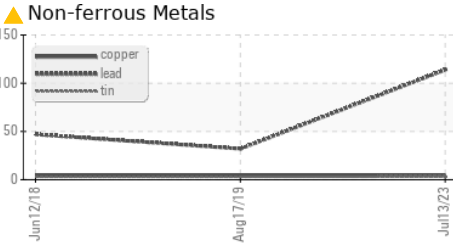
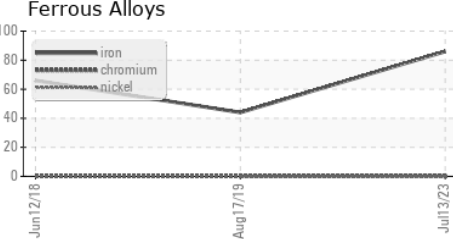
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	35.3	35.7	---

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.** : PE0001400 **Received** : 20 Jul 2023  
**Lab Number** : 05903700 **Diagnosed** : 24 Jul 2023  
**Unique Number** : 10565056 **Diagnostician** : Doug Bogart  
**Test Package** : CONST ( Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN )

**Gary Merlino Construction - Off Road Shop**  
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 SEATTLE, WA  
 US 98108  
 Contact: Jesse Patterson  
 oilsamples@gmccinc.com  
 T: 1(866)292-1303  
 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)