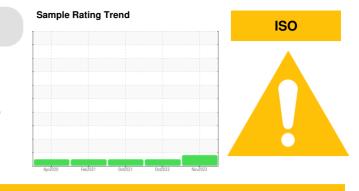


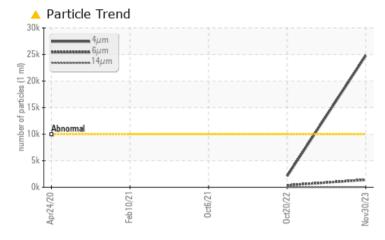
## **PROBLEM SUMMARY**

## GM Seattle Off Raod Shop [GM Seattle Off Raod Shop] 26-224 Component

Transmission (Auto) Fluid DIESEL ENGINE OIL SAE 30 (--- GAL)



#### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

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

PROBLEMATIC TE	ST RESULTS			
Sample Status		ABNORMAL	NORMAL	NORMAL
Particles >4µm	ASTM D7647 >10	0000 <b>🔺 24783</b>	2090	
Oil Cleanliness	ISO 4406 (c) >20	)/18/15 🔺 <b>22/18/12</b>	18/16/12	22/18/12

Customer Id: GARSEA Sample No.: PE0002297 Lab Number: 06026295 Test Package: CONST



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS				
Action	Status	Date	Done By	Description
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

#### **HISTORICAL DIAGNOSIS**



### 20 Oct 2022 Diag: Don Baldridge

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 amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the fluid is acceptable for the time in service.



#### 06 Oct 2021 Diag: Wes Davis





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.





#### 10 Feb 2021 Diag: Wes Davis

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

#### view report





## **OIL ANALYSIS REPORT**

# Sample Rating Trend ISO



## GM Seattle Off Raod Shop [GM Seattle Off Raod Shop] 26-224 Component

Transmission (Auto) Fluid

DIESEL ENGINE OIL SAE 30 (--- GAL)

DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		PE0002297	PE0000390	PE12291133
Oil and filter change at the time of sampling has	Sample Date		Client Info		30 Nov 2023	20 Oct 2022	06 Oct 2021
been noted. No corrective action is recommended	Machine Age	hrs	Client Info		4665	3584	2223
at this time. Resample at the next service interval to	Oil Age	hrs	Client Info		1081	3584	2223
monitor.	Oil Changed		Client Info		Changed	Changed	Not Changd
Wear	Sample Status				ABNORMAL	NORMAL	NORMAL
All component wear rates are normal.	CONTAMINATIO	N	method	limit/base	current	history1	history2
Contamination There is a high amount of silt (particulates < 14 microns in size) present in the fluid.	Water		WC Method	>0.1	NEG	NEG	NEG
Fluid Condition	WEAR METALS		method	limit/base	current	history1	history2
The AN level is acceptable for this fluid. The	PQ		ASTM D8184	>50	18	11	
condition of the fluid is suitable for further service.	Iron	ppm	ASTM D5185m	>160	12	31	16
	Chromium	ppm	ASTM D5185m		0	0	0
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>5	0	0	<1
	Aluminum	ppm	ASTM D5185m		<1	1	1
	Lead	ppm	ASTM D5185m	>50	<1	2	2
	Copper	ppm	ASTM D5185m		49	81	18
	Tin	ppm	ASTM D5185m	>10	<1	<1	0
	Antimony	ppm	ASTM D5185m				1
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	250	21	3	2
	Barium	ppm	ASTM D5185m	10	0	2	1
	Molybdenum	ppm	ASTM D5185m	100	0	<1	0
	Manganese	ppm	ASTM D5185m		<1	1	
	Magnesium	ppm	ASTM D5185m	450	11	9	9
	Calcium	ppm	ASTM D5185m	3000	2730	3204	3162
	Phosphorus	ppm	ASTM D5185m	1150	822	1032	1026
	Zinc	ppm	ASTM D5185m	1350	904	1237	1252
	Sulfur	ppm	ASTM D5185m	4250	4524	10643	
	CONTAMINANTS	S	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>20	6	11	12
	Sodium	ppm	ASTM D5185m	>75	2	0	2
	Potassium	ppm	ASTM D5185m		0	3	3
	FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>10000	<b>A</b> 24783	2090	
	Particles >6µm		ASTM D7647		1405	388	
	Particles >14µm		ASTM D7647		40	22	
	Particles >21µm		ASTM D7647		12	5	
	Particles >38µm		ASTM D7647		1	0	
	Particles >71µm		ASTM D7647		0	0	
				00/10/15	-	10/10/10	00/10/10

**Oil Cleanliness** 

18/16/12

ISO 4406 (c) >20/18/15 🔺 22/18/12

22/18/12



## **OIL ANALYSIS REPORT**

limit/base

limit/base

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

limit/base

>0.1

101

current

current

0.99

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

current

Particle Count

Acid Number

Feb10/21

491,52

122,88

30.72

480

120

30

(B/HOX Bu)

b 2.0

§ 1.0

0.0 Acid

Apr24

hw20/02

ov30/73

30/73

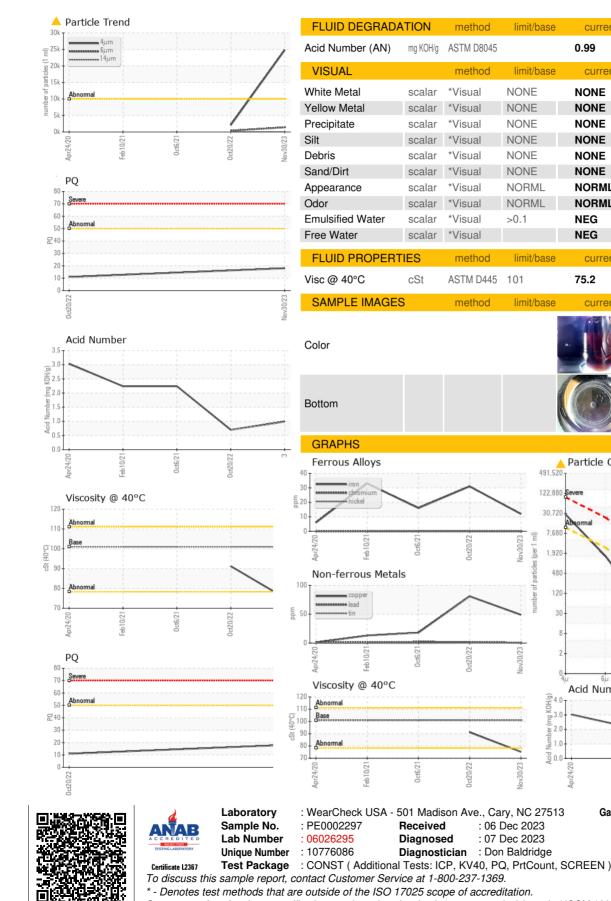
: 06 Dec 2023

: 07 Dec 2023

Der 1,920 NEG

NEG

75.2



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Gary Merlino Construction - Off Road Shop

38

21

Oct6/21

14



history1

history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history1

NEG

NEG

91.2

0.70

history2

history2

history2

20 8

18

14

2.24