

# **PROBLEM SUMMARY**

# Sample Rating Trend



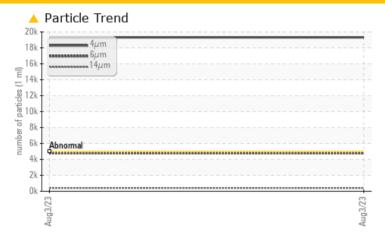




# GM SEATTLE OFF RAOD SHOP Machine Id [GM SEATTLE OFF RAOD SHOP] 24-172

Hydraulic System
Fluid
CAT HYDO (--- GAL)

# **COMPONENT CONDITION SUMMARY**



# RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: Top Up Amount: 1 gallon )

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL						
Particles >4μm	ASTM D7647	>5000	<u> </u>						
Particles >6μm	ASTM D7647	>1300	<b>4786</b>						
Particles >14μm	ASTM D7647	>160	<b>408</b>						
Particles >21µm	ASTM D7647	>40	<b>124</b>						
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u>^</u> 21/19/16						

Customer Id: GARSEA Sample No.: PE0002304 Lab Number: 05922799 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

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

# **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

# HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**



# **GM SEATTLE OFF RAOD SHOP** [GM SEATTLE OFF RAOD SHOP] 24-172

**Hydraulic System** CAT HYDO (--- GAL)





# **DIAGNOSIS**

# Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: Top Up Amount: 1 gallon )

All component wear rates are normal.

# Contamination

There is a high amount of particulates present in the oil.

# **Fluid Condition**

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

				Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0002304		
Sample Date		Client Info		03 Aug 2023		
Machine Age	hrs	Client Info		1024		
Oil Age	hrs	Client Info		1024		
Oil Changed		Client Info		Oil Added		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		18		
Iron	ppm	ASTM D5185m	>20	9		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	2		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	7		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		1		
Calcium	ppm	ASTM D5185m		223		
Phosphorus	ppm	ASTM D5185m	1100	622		
Zinc	ppm	ASTM D5185m	1210	842		
Sulfur	ppm	ASTM D5185m		2153		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>		
Particles >6µm		ASTM D7647	>1300	<b>4786</b>		
Particles >14μm		ASTM D7647	>160	<b>408</b>		
Particles >21µm		ASTM D7647	>40	<u> </u>		
Particles >38µm		ASTM D7647	>10	7		
Particles >71μm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 21/19/16		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	1/01//	10711 00015				

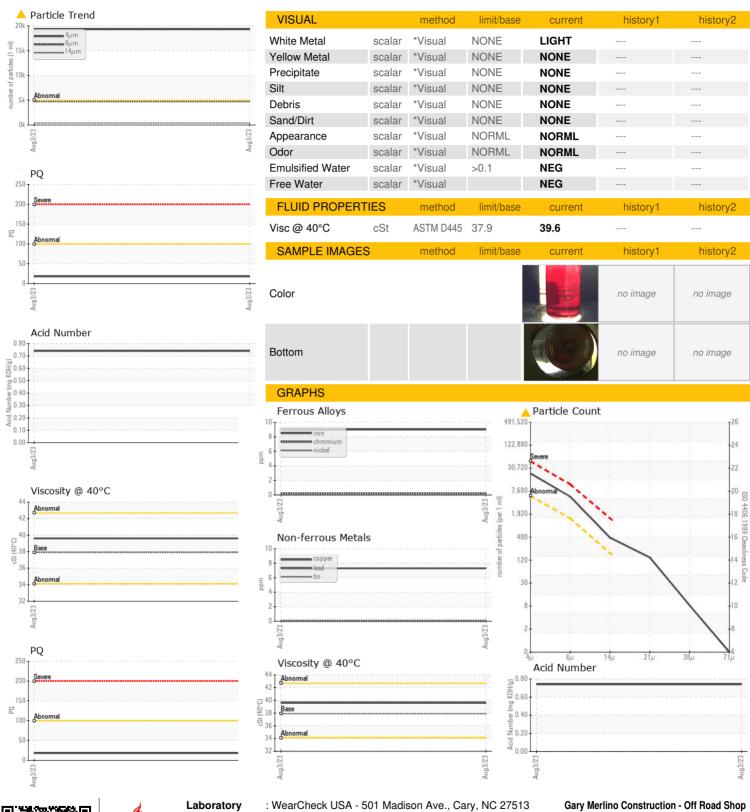
Acid Number (AN)

mg KOH/g ASTM D8045

0.74



# **OIL ANALYSIS REPORT**





Certificate L2367

Report Id: GARSEA [WUSCAR] 05922799 (Generated: 08/14/2023 23:04:13) Rev: 1

Sample No. Lab Number **Unique Number** 

+05922799

: PE0002304

Received Diagnosed

Diagnostician : Doug Bogart : 10602746

Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 11 Aug 2023

: 14 Aug 2023

\* - 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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Submitted By: Stoneway Concrete - Seattle - Jesse Patterson

F: