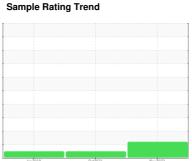


# **OIL ANALYSIS REPORT**







# GM Seattle Off Raod Shop [GM Seattle Off Raod Shop] 28-229

**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: 2 gallons)

All component wear rates are normal.

## Contamination

There is a moderate 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.

				0ct2021 Nov20		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0000596	PE12291113	PE12292136
Sample Date		Client Info		30 Nov 2023	20 Oct 2021	08 Jan 2019
Machine Age	hrs	Client Info		2889	2025	1072
Oil Age	hrs	Client Info		2889	2025	1072
Oil Changed		Client Info		Oil Added	Not Changd	N/A
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		12		
Iron	ppm	ASTM D5185m	>20	7	5	3
	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	1
Aluminum	ppm	ASTM D5185m	>10	2	1	1
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>75	6	6	5
	ppm	ASTM D5185m	>10	0	0	0
	ppm	ASTM D5185m			1	
	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	1	
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		3	2	3
-	ppm	ASTM D5185m		195	187	144
	ppm	ASTM D5185m	1100	734	701	613
	ppm	ASTM D5185m	1210	956	938	818
	ppm	ASTM D5185m		1773		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	2	1
Sodium	ppm	ASTM D5185m		0	2	0
Potassium	ppm	ASTM D5185m	>20	<1	1	0
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2200		1861
Particles >6µm		ASTM D7647	>1300	887		61
Particles >14µm		ASTM D7647	>160	<b>236</b>		3
Particles >21µm		ASTM D7647	>40	<b>4</b> 99		2
Particles >38µm		ASTM D7647	>10	7		<1
Particles >71µm		ASTM D7647	>3	1		
0" 0"						

ISO 4406 (c) >19/17/14 **18/17/15** 

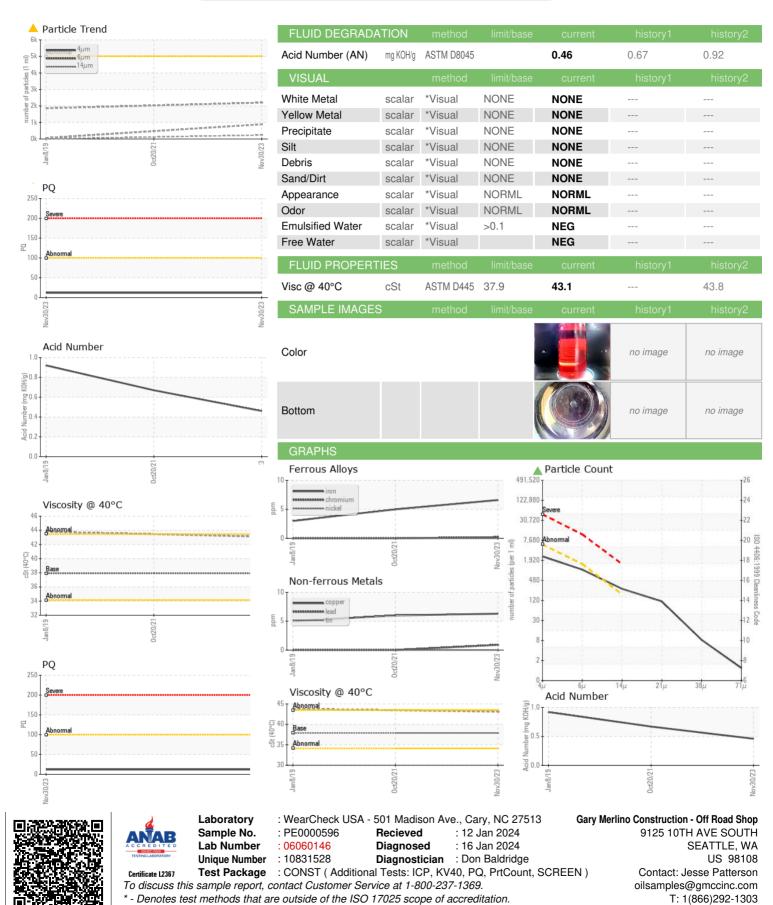
Oil Cleanliness

17/15/12

18/13/9



## **OIL ANALYSIS REPORT**



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

F: