

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



GM Seattle Off Raod Shop [GM Seattle Off Raod Shop] 28-231

Hydraulic System
Fluid
CAT HYDO (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (
Customer Sample Comment:

Top Up Amount: 3 gallons)

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 acceptable for the time in convice.

			Mar2021	Jui2023		
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
	MATION		IIIIIIVDase			
Sample Number		Client Info		PE0002183	PE12291378	
Sample Date		Client Info		07 Jul 2023	23 Mar 2021	
Machine Age	hrs	Client Info		3148	2074	
Oil Age	hrs	Client Info		3148	2074	
Oil Changed		Client Info		Oil Added	Not Changd	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		8		
Iron	ppm	ASTM D5185m	>20	7	6	
Chromium	ppm	ASTM D5185m	>10	<1	1	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	<1	
Aluminum	ppm	ASTM D5185m	>10	1	1	
Lead	ppm	ASTM D5185m	>10	0	1	
Copper	ppm	ASTM D5185m	>75	4	5	
Tin	ppm	ASTM D5185m	>10	0	0	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0		
ADDITIVEC			li-n-i+/	-	lai atau u .d	histow.O
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		<1	2	
Calcium	ppm	ASTM D5185m		182	174	
Phosphorus	ppm	ASTM D5185m	1100	722	708	
Zinc	ppm	ASTM D5185m	1210	941	925	
Sulfur	ppm	ASTM D5185m		2182		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	1	1	
Sodium	ppm	ASTM D5185m		<1	0	
Potassium	ppm	ASTM D5185m	>20	0	0	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1265		
Particles >6µm		ASTM D7647	>1300	384		
Particles >14µm		ASTM D7647	>160	56		
Particles >21µm		ASTM D7647	>40	20		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/16/13		
FLUID DEGRADA	ATION _	method	limit/base	current	history1	history2
				0.64		

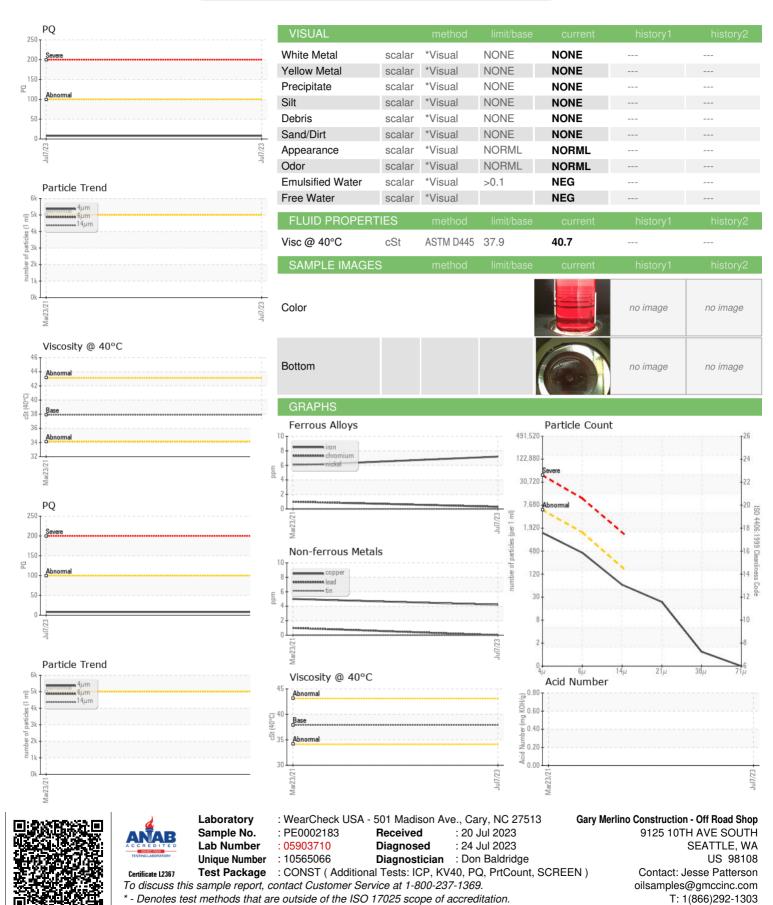
Acid Number (AN)

mg KOH/g ASTM D8045

0.64



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

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