

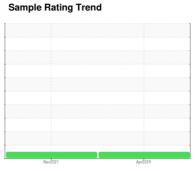
OIL ANALYSIS REPORT



GM Seattle Off Raod Shop [GM Seattle Off Raod Shop] 24-587

Hydraulic System

CASTROL DUAL RANGE HV HYD OIL ISO 46 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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.

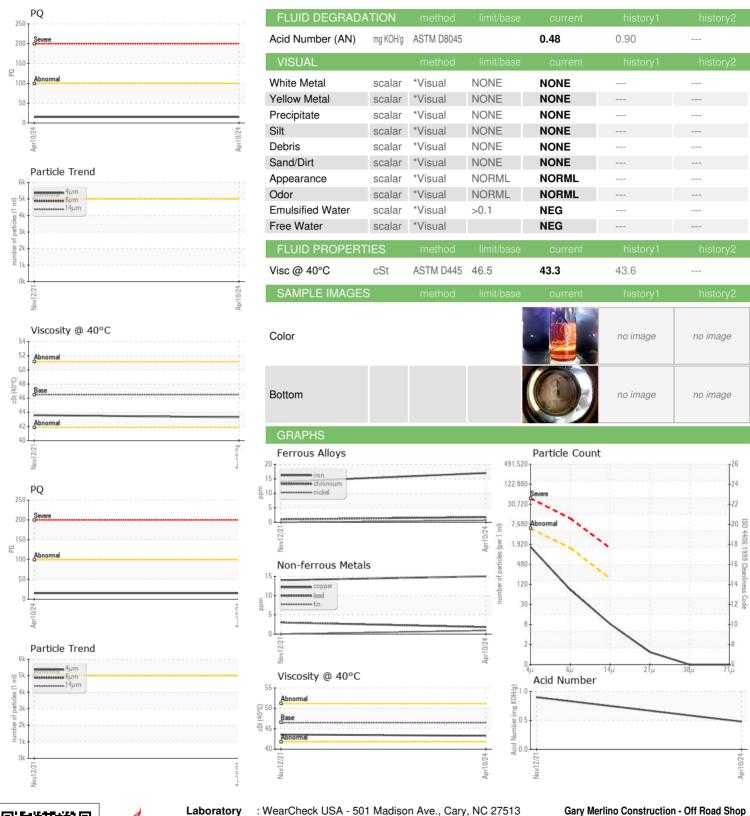
Fluid Condition

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

V HYD OIL ISO 46 (-	GAL)		Nov2021	Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0003077	PE12291059	
Sample Date		Client Info		10 Apr 2024	12 Nov 2021	
Machine Age	hrs	Client Info		4190	3404	
Oil Age	hrs	Client Info		4190	3404	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		15		
Iron	ppm	ASTM D5185m	>20	17	14	
Chromium	ppm	ASTM D5185m	>10	2	1	
Nickel	ppm	ASTM D5185m	>10	<1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		<1	<1	
Aluminum	ppm	ASTM D5185m	>10	3	1	
Lead	ppm	ASTM D5185m	>10	2	3	
Copper	ppm	ASTM D5185m	>75	15	14	
Tin	ppm	ASTM D5185m	>10	<1	0	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	1	
Molybdenum	ppm	ASTM D5185m		<1	0	
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		5	3	
Calcium	ppm	ASTM D5185m		107	81	
Phosphorus	ppm	ASTM D5185m		562	442	
Zinc	ppm	ASTM D5185m		634	528	
Sulfur	ppm	ASTM D5185m		2686		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	4	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	2	1	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1412		
Particles >6µm		ASTM D7647	>1300	74		
Particles >14μm		ASTM D7647	>160	7		
Particles >21µm		ASTM D7647	>40	1		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/13/10	18/15/12	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: PE0003077 Lab Number : 06156857 Unique Number : 10992280

Received : 22 Apr 2024 **Tested** : 23 Apr 2024

: 24 Apr 2024 - Angela Borella Diagnosed Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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)

Gary Merlino Construction - Off Road Shop

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