

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



GM Seattle Off Raod Shop [GM Seattle Off Raod Shop] 24-590 Gomponent Hydraulic System Fluid

CAT HYDO (--- GAL)

RECOMMENDATION

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

Top Up Amount: 2 gallons)

W	EAR	

All component wear rates are normal.

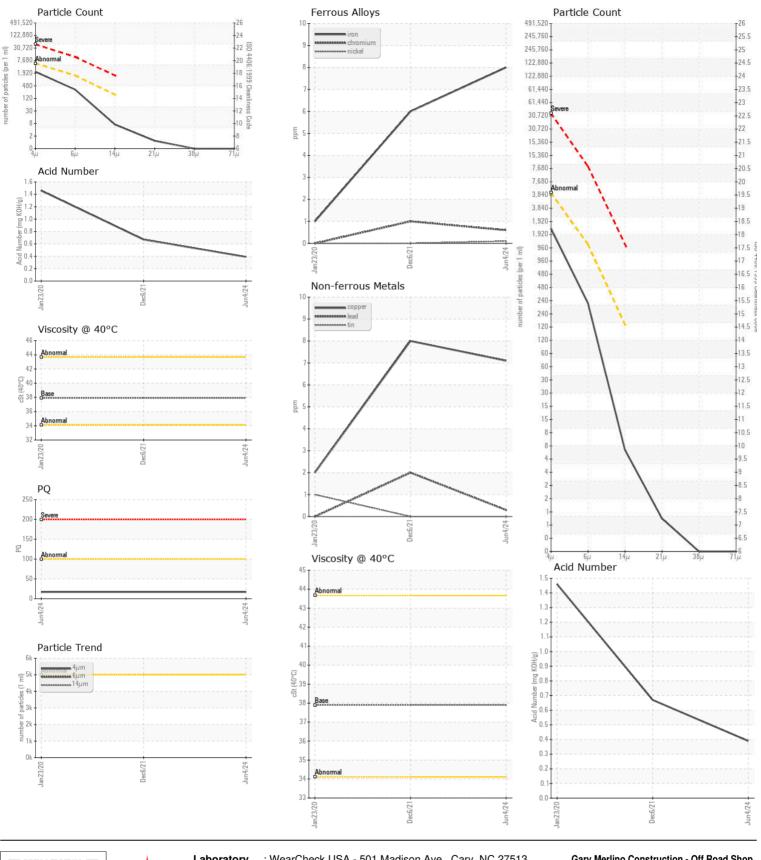
CONTAMINATION

There is no indication of any contamination in the fluid. 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 fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PE0003087	PE12291043	PE12291709
Sample Date		Client Info		04 Jun 2024	06 Dec 2021	23 Jan 2020
Machine Age	hrs	Client Info		3235	1320	4
Oil Age	hrs	Client Info		3235	1320	4
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Oil Added	Not Changd	Not Changd
Filter Changed		Client Info		Changed		
Sample Status				NORMAL	NORMAL	NORMAL
PQ		ASTM D8184		17		
Iron	ppm	ASTM D5185m	>20	8	6	1
Chromium	ppm	ASTM D5185m	>10	<1	1	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	2	1	0
Lead	ppm	ASTM D5185m	>10	<1	2	0
Copper	ppm	ASTM D5185m	>75	7	8	2
Tin	ppm	ASTM D5185m	>10	0	0	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	000	ASTM D5185m	>20	5	2	0
Potassium	ppm	ASTM D5185m		5	0	1
Water	ppm	WC Method	>2.0	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	1973	NEG	neg
Particles >6µm		ASTM D7647 ASTM D7647	>1300	278		
Particles >14µm		ASTM D7647		6		
Particles >21µm		ASTM D7647	>40	1		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)		18/15/10	18/16/12	18/17/14
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.1	NEG		
Sodium	ppm	ASTM D5185m		0	4	2
Boron	ppm	ASTM D5185m		0	1	0
Barium	ppm	ASTM D5185m		2	2	3
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		4	3	2
Calcium	ppm	ASTM D5185m		244	348	154
Phosphorus	ppm	ASTM D5185m	1100	522	688	706
Zinc	ppm	ASTM D5185m	1210	665	797	954
Sulfur	ppm	ASTM D5185m		1640		
Acid Number (AN)	mg KOH/g	ASTM D8045	07.0	0.39	0.67	1.46
Visc @ 40°C	cSt	ASTM D445	37.9	42.3		



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Gary Merlino Construction - Off Road Shop Sample No. Received 9125 10TH AVE SOUTH : PE0003087 : 14 Jun 2024 Lab Number : 06210681 SEATTLE, WA Tested : 18 Jun 2024 : 18 Jun 2024 - Angela Borella US 98108 Unique Number : 11083545 Diagnosed Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN) Contact: Jesse Patterson Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. oilsamples@gmccinc.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: 1(866)292-1303 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: