

OIL ANALYSIS REPORT

Sample Rating Trend



Area **GM** Seattle Off Raod Shop [GM Seattle Off Raod Shop] 24-590

Hydraulic System

NORMAL



CAT HYDO (--- GAL)

Recommendation

DIAGNOSIS

Resample at the next service interval to monitor. (Customer Sample Comment: Top Up Amount: 2 gallons)

Wear

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.

SAMPLE INFORM	IATION	method	limit/base	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	
Oil Changed		Client Info		Oil Added	Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION	۷	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		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	
Antimony	ppm	ASTM D5185m			0	0	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0			
ADDITIVES		method	limit/base	current	history1	history2	
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			
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	5	2	0	
Sodium	ppm	ASTM D5185m		0	4	2	
Potassium	ppm	ASTM D5185m	>20	1	0	1	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	1973			
Particles >6µm		ASTM D7647	>1300	278			
Particles >14µm		ASTM D7647	>160	6			
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	18/15/10	18/16/12	18/17/14	



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OIL ANALYSIS REPORT

	PQ	FLUID DEGRADA	TION	method	limit/base	current
10	Severe	Acid Number (AN)	mg KOH/g			0.39
0-		VISUAL		method	limit/base	current
10-	Abnormal	White Metal	scalar	*Visual	NONE	NONE
0-		Yellow Metal	scalar	*Visual	NONE	NONE
0		Precipitate	scalar	*Visual	NONE	NONE
01	Jun4/24 +	Silt	scalar	*Visual	NONE	NONE
	Jun4/24	Debris	scalar	*Visual	NONE	NONE
	Particle Trend	Sand/Dirt	scalar	*Visual	NONE	NONE
ik 1		Appearance	scalar	*Visual	NORML	NORML
ik •	Αυτοπται 4μm	Odor	scalar	*Visual	NORML	NORML
k٠	14μm	Emulsified Water	scalar	*Visual	>0.1	NEG
lk •		Free Water	scalar	*Visual		NEG
!k•		FLUID PROPERT	IES	method	limit/base	current
k•		Visc @ 40°C	cSt	ASTM D445	37.9	42.3
NK -	Jan 23/20 - Dec6/21 - Jun 4/24 -	SAMPLE IMAGES	3	method	limit/base	current
0	Viscosity @ 40°C	Color				•
4.	Abnormal					
2.						
8.	Base	Bottom				
6.						
4.	Abnormal	GRAPHS				
2	Jan 23/20 + Dec6/21 +	Ferrous Alloys				Particle Count
	Jan2	10			491,520	
	PQ	E 5-			122,880	Severe
0					30,720	
10 -	Severe		51		호 후 7,680	Abnormal
0		Jan 23/20	Dec6/21		Jun4/24 (per 1 ml	1 ····
10-	Abnormal	Non-ferrous Metal	-			1
0-			5		of ba	
0.		copper				
0-	Jun4/24 -	tin tin			30	
	۲ 		AND DE DESCRIPTION OF THE OWNER.	********	8	`
	Particle Trend	Jan 23/20	Dec6/21-		Jun4/24	
ik 1	4μm	Jan	De		٦ 4 0	6 1
ik •	2010011121 	Viscosity @ 40°C				Acid Number
-k					401.5 With Kong With Kong	
lk -		(고 40 음 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			<u></u>	
k•		경 35 - Abnormal			^q m 0.5	
k•		30				
IK -	Jan 23/20 + Dec6/21 +	Jan 23/20	Dec6/21		Jun4/24	Jan 23/20
	Jan 2 Der	ř				-
		: WearCheck USA - 50	1 Madica		NC 27512	Gary Merli
k		: PE0003087	Recei		Jun 2024	Gary wern
í	Lab Number	: 06210681	Teste	e d :18	Jun 2024	
ļ	Tistic Laboratory Unique Number				Jun 2024 - Ange	
2		: CONST (Additional To				NEEN)

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

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Gary Merlino Construction - Off Road Shop 9125 10TH AVE SOUTH SEATTLE, WA US 98108 Contact: Jesse Patterson oilsamples@gmccinc.com T: 1(866)292-1303 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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Report Id: GARSEA [WUSCAR] 06210681 (Generated: 06/22/2024 04:32:35) Rev: 1

Submitted By: Stoneway Concrete - Seattle - Jesse Patterson

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Dec6/21-