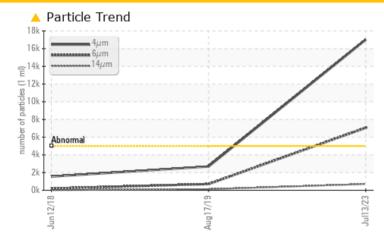


PROBLEM SUMMARY

GM Seattle Off Raod Shop [GM Seattle Off Raod Shop] 26-525

Component Hydraulic System Fluid ISO 46 (--- GAL)

COMPONENT CONDITION SUMMARY



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.

PROBLEMATIC TEST RESULTS

THOBLEM/THO TEOT	TILOOLIO				
Sample Status			ABNORMAL	NORMAL	MARGINAL
Particles >4µm	ASTM D7647 >	>5000	<u> </u>	2687	1547
Particles >6µm	ASTM D7647 >	>1300	A 7062	699	198
Particles >14µm	ASTM D7647 >	>160	<u> </u>	123	17
Particles >21µm	ASTM D7647 >	>40	<u> </u>	56	
Oil Cleanliness	ISO 4406 (c) >	>19/17/14	<u> </u>	19/17/14	18/15/11

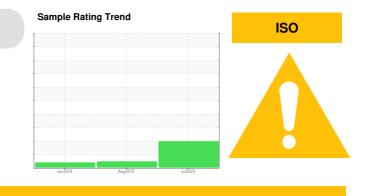
Customer Id: GARSEA Sample No.: PE0001399 Lab Number: 05903708 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

17 Aug 2019 Diag: Wes Davis

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity. filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

12 Jun 2018 Diag: Wes Davis



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The system and fluid cleanliness is acceptable. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Area GM Seattle Off Raod Shop [GM Seattle Off Raod Shop] 26-525

Hydraulic System Fluid ISO 46 (--- 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.

Wear

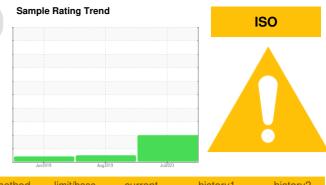
All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

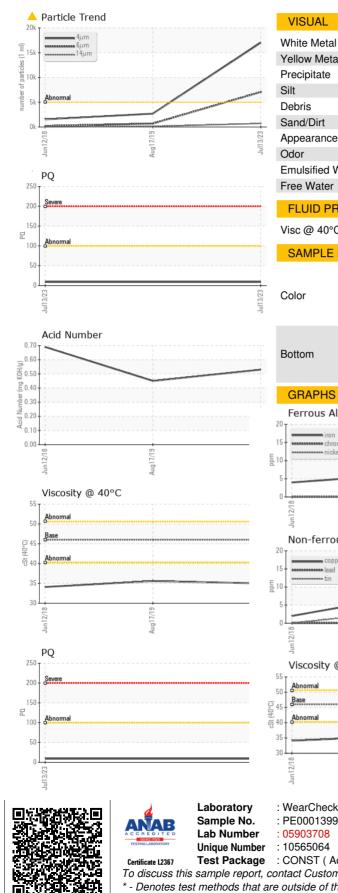
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0001399	PE12291826	PE12292419
Sample Date		Client Info		13 Jul 2023	17 Aug 2019	12 Jun 2018
Machine Age	hrs	Client Info		4803	2905	1950
Oil Age	hrs	Client Info		4803	2905	1950
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		9		
Iron	ppm	ASTM D5185m	>20	18	6	4
Chromium	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	3	2	1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm		>75	18	7	2
Tin	ppm	ASTM D5185m		<1	3	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		9	29	45
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		0	1	2
Calcium	ppm	ASTM D5185m		97	81	69
Phosphorus	ppm	ASTM D5185m		304	287	221
Zinc	ppm	ASTM D5185m		248	217	108
Sulfur	ppm	ASTM D5185m		4738		
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7	3	4
Sodium	ppm	ASTM D5185m		2	2	2
Potassium	ppm	ASTM D5185m	>20	0	2	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	17008	2687	1547
Particles >6µm		ASTM D7647	>1300	<u> </u>	699	198
Particles >14µm		ASTM D7647	>160	A 706	123	17
Particles >21µm		ASTM D7647	>40	<u> </u>	56	
Particles >38µm		ASTM D7647	>10	3	12	
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 21/20/17	19/17/14	18/15/11
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.53	0.45	0.69



OIL ANALYSIS REPORT



	VISUAL		method	limit/base	current	history1	history
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
and the second s	Debris	scalar	*Visual	NONE	NONE		
DERRETARE EXTERNAL	Sand/Dirt	scalar	*Visual	NONE	NONE		
111323	Appearance	scalar	*Visual	NORML	NORML		
-	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPER	TIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	46.0	35.0	35.6	4 .1
	SAMPLE IMAGE	ES	method	limit/base	current	history1	history2
	Color					no image	no image
	Bottom					no image	no image
	GRAPHS						
	Ferrous Alloys				Particle Count		
	20 iron			491,520			T ²
	15 - hereiten honnium			122,880			-2
1	E 10-			30,720	Severe		
	5-			30,720			-2
	0	_		7,680	Abnormal		-2
	Jun 12/18	Aug17/19		Jul13/23 (per 1 m]	1. 1.		1
				seites		1	-1
	Non-ferrous Meta	als		offred Jo		. \	1
	copper			nge 120-)	-1
	tin			30.		/	
	<u>ق</u> 10-	/					
	5-	and States and State Descriptions in which the	Section Section Section	8.			
		19		2. 2.			
	Jun12/1	Aug17/19		5 23			
	⊰ Viscosity @ 40°C			0- 4	и 6µ	14µ 21µ	38µ 71µ
	55 T	•		0.80	Acid Number		
	50 - Abnormal			(B/H0			
	Deve			월 0.60 · 월			
	() 45 - Abnormal 성상 40 - Abnormal			(0,80 (0,40)) 10 (0,40) (0,40) (0,20			
	35			D.20			
	30			0.00			
	Jun 12/18	Aug17/19.		Jul13/23	Jun 12/18	Aug17/19	
	ung	Aug		ηΓ	Jur	Aug	