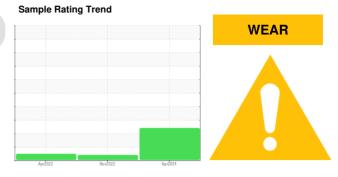


OIL ANALYSIS REPORT

HOWARD SHEPPARD 2566 HOWARD SHEPPARD

Front Differential

{not provided} (--- GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Gear wear is indicated.

Contamination

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

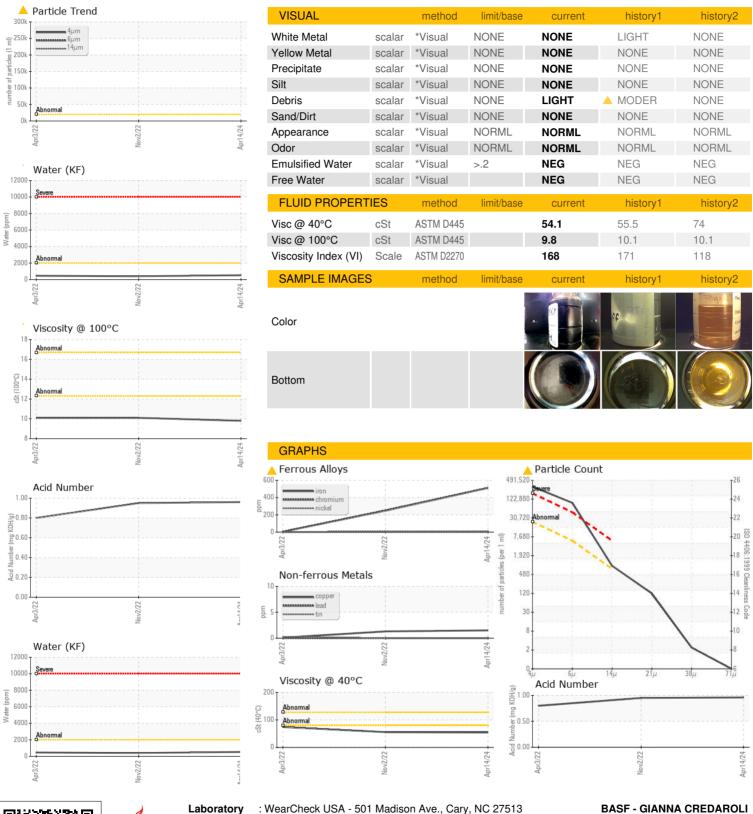
Fluid Condition

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		WC0934659	WC0771210	WC0682441
Sample Date		Client Info		14 Apr 2024	02 Nov 2022	03 Apr 2022
Machine Age	mls	Client Info		210821	78226	1466
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<u> </u>	248	5
Chromium	ppm	ASTM D5185m	>10	3	2	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	14	3	<1
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	2	1	<1
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		83	97	112
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		13	8	<1
Magnesium	ppm	ASTM D5185m		151	148	191
Calcium	ppm	ASTM D5185m		4	3	0
Phosphorus	ppm	ASTM D5185m		1624	1539	1747
Zinc	ppm	ASTM D5185m		16	6	0
Sulfur	ppm	ASTM D5185m		26492	22289	22846
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon						
	nnm	ASTM D5185m	>75	44	16	2
	ppm	ASTM D5185m	>75	44 7	16 3	2 <1
Sodium	ppm	ASTM D5185m		7	3	<1
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>20	7	3	<1 0
Sodium Potassium Water	ppm	ASTM D5185m	>20	7	3	<1
Sodium Potassium Water	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304	>20	7 1 0.052	3 1 0.040	<1 0 0.046
Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>20 >.2 >2000	7 1 0.052 523	3 1 0.040 403.2	<1 0 0.046 462.8
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	>20 >.2 >2000 limit/base	7 1 0.052 523 current	3 1 0.040 403.2 history1	<1 0 0.046 462.8 history2
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>20 >.2 >2000 limit/base >20000	7 1 0.052 523 current ^ 263471	3 1 0.040 403.2 history1	<1 0 0.046 462.8 history2
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>20 >.2 >2000 limit/base >20000 >5000	7 1 0.052 523 current 263471 80544 801	3 1 0.040 403.2 history1	<1 0 0.046 462.8 history2
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>20 >.2 >2000 limit/base >20000 >5000 >640 >160	7 1 0.052 523 current 263471 80544 801 105	3 1 0.040 403.2 history1	<1 0 0.046 462.8 history2
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >.2 >2000 limit/base >20000 >5000 >640 >160 >40	7 1 0.052 523 current 263471 80544 801 105 2	3 1 0.040 403.2 history1	<1 0 0.046 462.8 history2
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>20 >.2 >2000 limit/base >20000 >5000 >640 >160 >40	7 1 0.052 523 current 263471 80544 801 105	3 1 0.040 403.2 history1	<1 0 0.046 462.8 history2
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm Particles >71µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >.2 >2000 limit/base >20000 >5000 >640 >160 >40 >10	7 1 0.052 523 current 263471 80544 801 105 2 0	3 1 0.040 403.2 history1 	<1 0 0.046 462.8 history2



OIL ANALYSIS REPORT







Certificate 12367

Laboratory

Sample No.

: WC0934659 Lab Number : 06195906 Unique Number : 11058029

Received **Tested** Diagnosed

: 30 May 2024 : 02 Jun 2024

: 02 Jun 2024 - Doug Bogart

Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI) 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)

Report Id: bastarhd [WUSCAR] 06195906 (Generated: 06/02/2024 16:38:06) Rev: 1

Contact/Location: MIKE BARRY - BASTARHD

US 10591

T:

F:

500 WHITE PLAINS RD

Contact: MIKE BARRY

mike.barry@basf.com

TARRYTOWN, NY