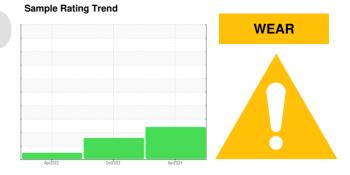


OIL ANALYSIS REPORT

HOWARD SHEPPARD 2563 HOWARD SHEPPARD

Front Differential

{not provided} (--- GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934577	WC0771233	WC0682429
Sample Date		Client Info		12 Apr 2024	15 Oct 2022	03 Apr 2022
Machine Age	mls	Client Info		189671	38877	396
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	^ 791	319	3
Chromium	ppm	ASTM D5185m	>10	5	2	0
Nickel	ppm	ASTM D5185m	>10	1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	9	3	<1
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>100	3	1	0
Tin	ppm		>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m		100	109	109
Barium	ppm	ASTM D5185m		2	0	0
	ppm	ASTM D5185m		<1	<1	0
Molybdenum	ppm			19	11	<1
Manganese	ppm	ASTM D5185m ASTM D5185m		150	148	186
Magnesium	ppm			2	2	0
Calcium	ppm	ASTM D5185m				-
Phosphorus	ppm	ASTM D5185m		1597 13	1540	1708
Zinc	ppm	ASTM D5185m		_	4	0
Sulfur	ppm	ASTM D5185m		24011	26361	22502
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	41	14	1
Sodium	ppm	ASTM D5185m		6	4	0
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304	>.2	0.010	0.035	0.051
ppm Water	ppm	ASTM D6304	>2000	102	358.0	510.6
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000	206090	△ 195904	
Particles >6µm		ASTM D7647	>5000	148045	<u>▲</u> 122816	
Particles >14μm		ASTM D7647	>640	2596	▲ 1713	
Particles >21μm		ASTM D7647	>160	29	54	
Particles >38µm		ASTM D7647	>40	1	2	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> 25/24/19</u>	<u>\$\text{\Delta}\$ 25/24/18</u>	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	140114	ACTM DODAE		0.00		

Acid Number (AN)

mg KOH/g ASTM D8045

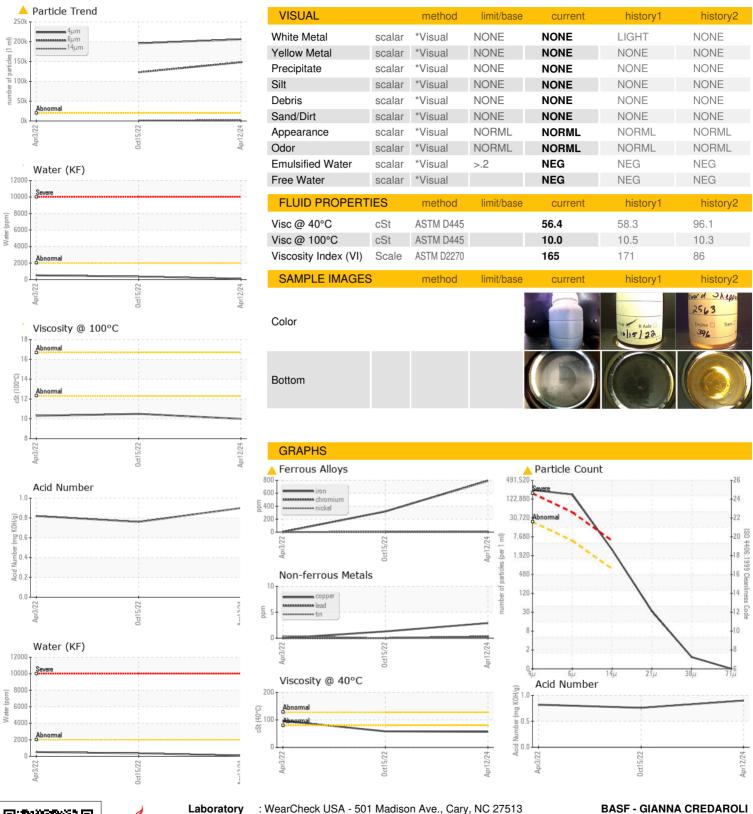
0.76

0.90

0.82



OIL ANALYSIS REPORT







Certificate 12367

Laboratory

Sample No. Lab Number

: WC0934577 : 06201502

Unique Number : 11063625

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

Received

Tested

: 06 Jun 2024

: 07 Jun 2024

: 11 Jun 2024 - Doug Bogart

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. **BASF - GIANNA CREDAROLI**

500 WHITE PLAINS RD TARRYTOWN, NY US 10591

Contact: MIKE BARRY mike.barry@basf.com

T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: