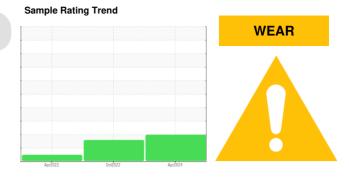


OIL ANALYSIS REPORT

HOWARD SHEPPARD 2564 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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934582	WC0771221	WC0682431
Sample Date		Client Info		09 Apr 2024	15 Oct 2022	03 Apr 2022
Machine Age	mls	Client Info		186772	54779	181
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	839	396	3
Chromium	ppm	ASTM D5185m	>10	5	2	0
Nickel	ppm	ASTM D5185m	>10	1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	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	2	<1
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES	le le	method	limit/base	current	history1	history2
			mini bacc			
Boron	ppm	ASTM D5185m		95	95	113
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		24	15	<1
Magnesium	ppm	ASTM D5185m		140	146	192
Calcium	ppm	ASTM D5185m		3	2	<1
Phosphorus	ppm	ASTM D5185m		1541	1503	1784
Zinc	ppm	ASTM D5185m		16	0	0
Sulfur	ppm	ASTM D5185m		23523	25056	23097
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	39	18	3
Sodium	ppm	ASTM D5185m		6	5	<1
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304	>.2	0.057	0.030	0.041
ppm Water	ppm	ASTM D6304	>2000	573	307.5	411.8
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	152679	242873	
Particles >6µm		ASTM D7647	>5000	<u></u> 69111	<u>▲</u> 138555	
Particles >14µm		ASTM D7647	>640	182	<u>▲</u> 1202	
Particles >21µm		ASTM D7647	>160	15	33	
Particles >38µm		ASTM D7647	>40	0	1	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/23/15	<u>△</u> 25/24/17	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045

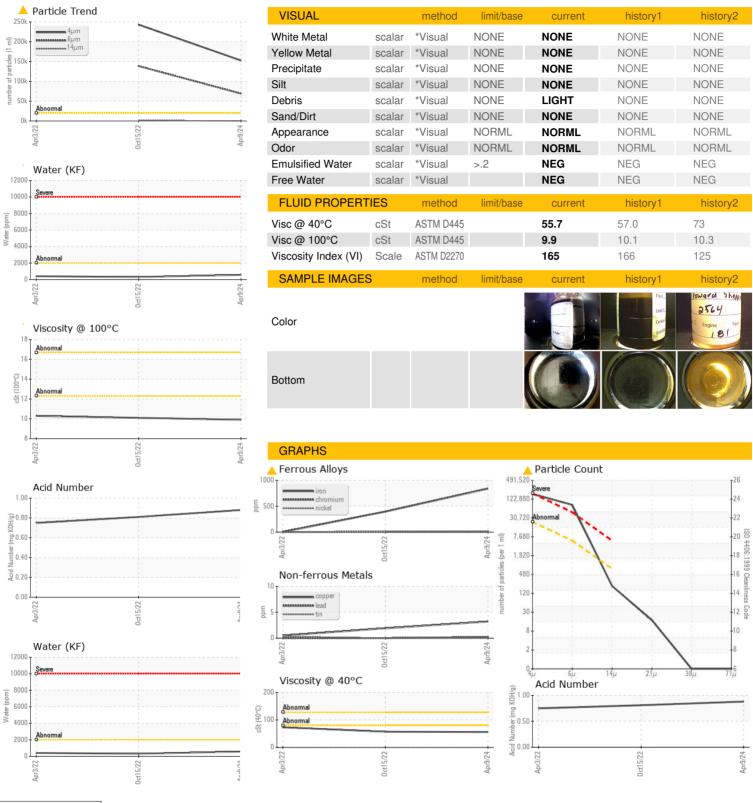
0.81

88.0

0.75



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0934582 : 06201506 Unique Number: 11063629

Received **Tested** Diagnosed

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

: 06 Jun 2024

: 07 Jun 2024

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

BASF - GIANNA CREDAROLI 500 WHITE PLAINS RD

TARRYTOWN, NY US 10591 Contact: MIKE BARRY

mike.barry@basf.com T:

F: