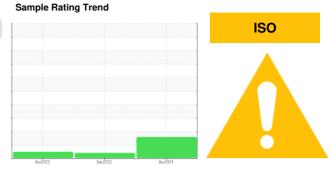


# **OIL ANALYSIS REPORT**

# HOWARD SHEPPARD **2571 HOWARD SHEPPARD**

**Rear Differential** 

GEAR OIL SAE 75W90 (--- GAL)



### **DIAGNOSIS**

### Recommendation

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

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		WC0934652	WC0771225	WC0692958
Sample Date		Client Info		14 Apr 2024	26 Sep 2022	06 Apr 2022
Machine Age	mls	Client Info		122405	25046	553
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	251	119	45
Chromium	ppm	ASTM D5185m	>10	1	<1	2
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	1
Aluminum	ppm	ASTM D5185m	>25	6	3	1
Lead	ppm	ASTM D5185m	>25	0	<1	<1
Copper	ppm	ASTM D5185m		1	1	1
Tin	ppm		>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	2
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	229	259	201
Barium	ppm	ASTM D5185m	200	2	1	0
Molybdenum	ppm	ASTM D5185m	12	0	0	<1
Manganese	ppm	ASTM D5185m		11	8	10
Magnesium	ppm	ASTM D5185m	12	2	2	6
Calcium	ppm	ASTM D5185m	150	7	6	6
Phosphorus	ppm	ASTM D5185m	1650	1359	1326	1195
Zinc	ppm	ASTM D5185m	125	18	11	7
Sulfur	ppm	ASTM D5185m	22500	27341	26803	22446
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	29	17	12
Sodium	ppm	ASTM D5185m		5	6	4
Potassium	ppm	ASTM D5185m	>20	1	1	0
Water	%	ASTM D6304		0.054	0.066	0.055
ppm Water	ppm	ASTM D6304	>2000	545	665.4	555.4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>△</b> 335649		
Particles >6µm		ASTM D7647	>5000	<b>132479</b>		
Particles >14µm		ASTM D7647	>640	<b>A</b> 856		
Particles >21µm		ASTM D7647	>160	63		
Particles >38µm		ASTM D7647	>40	1		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	△ 26/24/17		
FLUID DEGRADA	ATION	method	limit/base		history1	history2
	ma VOLVa	ACTM DODAE		o co	0.06	0.05

Acid Number (AN)

2.06

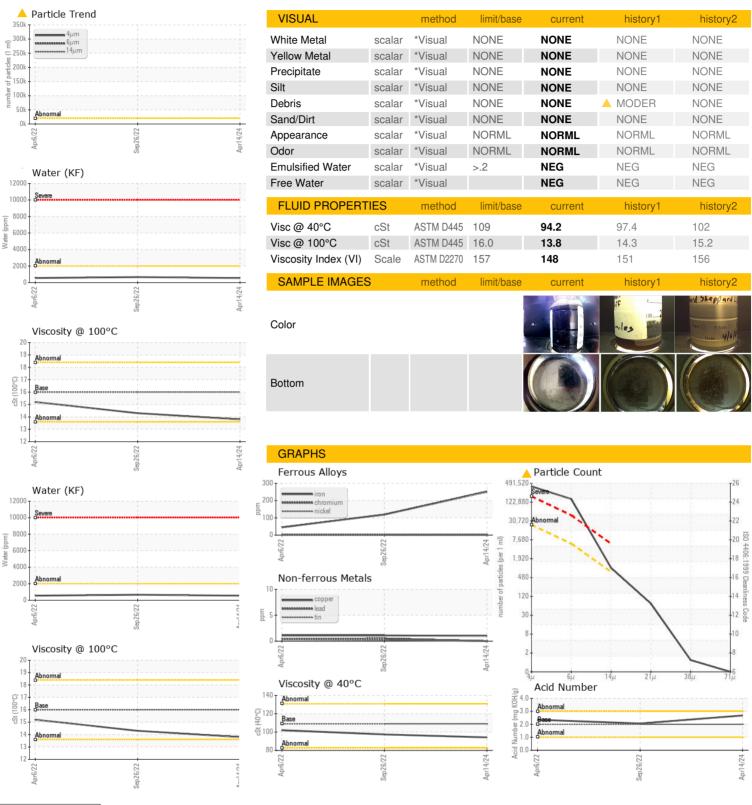
2.68

mg KOH/g ASTM D8045 2.00

2.35



## **OIL ANALYSIS REPORT**







Certificate 12367

Lab Number

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0934652 : 06195919

Unique Number : 11058042

Diagnosed : 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.

Received

**Tested** 

: 30 May 2024

: 02 Jun 2024

\* - 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)

**BASF - GIANNA CREDAROLI** 

500 WHITE PLAINS RD TARRYTOWN, NY US 10591

Contact: MIKE BARRY

mike.barry@basf.com T:

Report Id: bastarhd [WUSCAR] 06195919 (Generated: 06/02/2024 17:03:20) Rev: 2

Contact/Location: MIKE BARRY - BASTARHD

F: