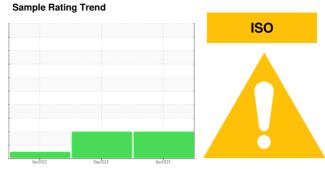


OIL ANALYSIS REPORT

HOWARD SHEPPARD 2573 HOWARD SHEPPARD

Front 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.

			2022			
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934649	WC0797100	WC0692953
Sample Date		Client Info		12 Apr 2024	30 Sep 2022	05 Apr 2022
Machine Age	mls	Client Info		109311	30114	150
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	238	244	20
Chromium	ppm	ASTM D5185m	>10	1	2	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	2
Aluminum	ppm	ASTM D5185m	>25	3	4	<1
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	<1	2	<1
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	7	237	210
Barium	ppm	ASTM D5185m	200	<1	0	0
Molybdenum	ppm	ASTM D5185m	12	<1	<1	<1
Manganese	ppm	ASTM D5185m		4	10	5
Magnesium	ppm	ASTM D5185m	12	<1	2	1
Calcium	ppm	ASTM D5185m	150	12	6	3
Phosphorus	ppm	ASTM D5185m	1650	539	1281	1213
Zinc	ppm	ASTM D5185m	125	15	10	3
Sulfur	ppm	ASTM D5185m	22500	23127	23199	17840
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	25	22	8
Sodium	ppm	ASTM D5185m		4	3	3
Potassium	ppm	ASTM D5185m	>20	3	1	0
Water	%	ASTM D6304	>.2	0.003	0.034	0.053
ppm Water	ppm	ASTM D6304	>2000	37	345.0	536.9
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	392031	<u> </u>	
Particles >6µm		ASTM D7647	>5000	4 248247	<u>▲</u> 140554	
Particles >14µm		ASTM D7647	>640	3897	▲ 3757	
Particles >21µm		ASTM D7647	>160	<u>^</u> 200	240	
Particles >38µm		ASTM D7647	>40	2	5	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>^</u> 26/25/19	<u>△</u> 25/24/19	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	1.15	2.29	2.47



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

Lab Number

: 06195909 Unique Number : 11058032

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0934649 Received : 30 May 2024 **Tested** : 02 Jun 2024 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.

* - 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] 06195909 (Generated: 06/02/2024 16:44:06) Rev: 1

Contact/Location: MIKE BARRY - BASTARHD

F: