

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area HOWARD SHEPPARD 2572 HOWARD SHEPPARD

Front Differential Fluid GEAR OIL SAE 75W90 (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

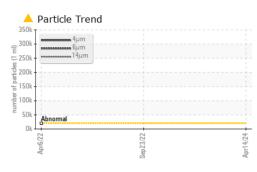
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

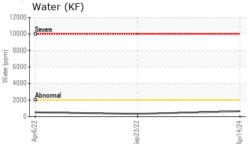
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934651	WC0771219	WC0692954
Sample Date		Client Info		14 Apr 2024	23 Sep 2022	06 Apr 2022
Machine Age	hrs	Client Info		193763	51459	1231
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	416	271	61
Chromium	ppm	ASTM D5185m	>10	2	1	1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	8
Aluminum	ppm	ASTM D5185m	>25	4	3	1
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>100	2	2	1
Tin	ppm		>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	159	250	209
Barium	ppm	ASTM D5185m	200	3	<1	0
Molybdenum	ppm	ASTM D5185m	12	0	0	2
Manganese	ppm	ASTM D5185m		12	10	7
Magnesium	ppm	ASTM D5185m	12	<1	0	3
Calcium	ppm	ASTM D5185m	150	6	3	5
Phosphorus	ppm	ASTM D5185m	1650	1362	1316	1228
Zinc	ppm	ASTM D5185m	125	14	7	5
Sulfur	ppm	ASTM D5185m	22500	26004	26186	17816
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	73	38	11
Sodium	ppm	ASTM D5185m		4	4	3
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>.2	0.063	0.032	0.051
ppm Water	ppm	ASTM D6304	>2000	636	329.7	511.3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	A 310022		
		ASTM D7647	>5000	<u> </u>		
Particles >6µm		ASTM D7647	>640	640		
Particles >6µm Particles >14µm				640 51		
Particles >6μm Particles >14μm Particles >21μm		ASTM D7647				
Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647	>160 >40	51		
Particles >6μm Particles >14μm Particles >21μm Particles >38μm		ASTM D7647 ASTM D7647 ASTM D7647	>160 >40	51 0		
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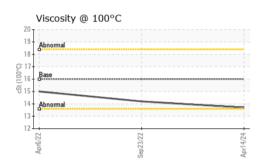
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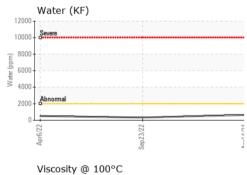


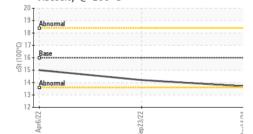
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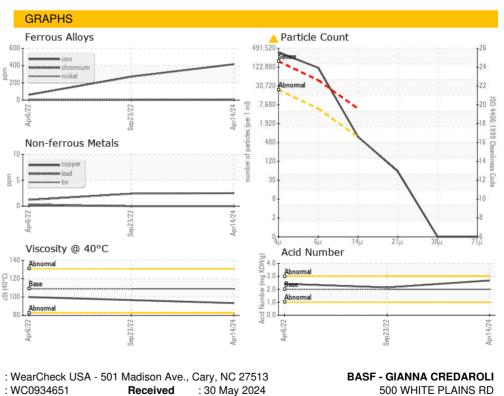


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	🔺 MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	109	93.4	96.7	100
Visc @ 100°C	cSt	ASTM D445	16.0	13.7	14.2	15.0
Viscosity Index (VI)	Scale	ASTM D2270	157	148	150	157
SAMPLE IMAGES		method	limit/base	current	history1	history2





Color





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0934651 Received : 30 May 2024 Lab Number : 06195905 Tested : 02 Jun 2024 TARRYTOWN, NY Unique Number : 11058028 Diagnosed : 02 Jun 2024 - Doug Bogart Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI) Contact: MIKE BARRY Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mike.barry@basf.com * - 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] 06195905 (Generated: 06/02/2024 16:34:14) Rev: 2

Contact/Location: MIKE BARRY - BASTARHD

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