

## **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

### Area HOWARD SHEPPARD 2563 HOWARD SHEPPARD

Rear Differential

{not provided} (--- 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	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934581	WC0934574	WC0771234
Sample Date		Client Info		12 Apr 2024	12 Apr 2024	15 Oct 2022
Machine Age	mls	Client Info		189561	189671	38877
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	376	413	141
Chromium	ppm	ASTM D5185m	>10	3	4	2
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		1	1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	18	18	4
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>100	2	2	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		120	110	113
Barium	ppm	ASTM D5185m		1	1	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		14	14	8
Magnesium	ppm	ASTM D5185m		153	153	150
Calcium	ppm	ASTM D5185m		6	6	3
Phosphorus	ppm	ASTM D5185m		1587	1507	1544
Zinc	ppm	ASTM D5185m		11	11	2
Sulfur	ppm	ASTM D5185m		25165	23286	26631
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	41	42	11
Sodium	ppm	ASTM D5185m		5	5	4
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water	%	ASTM D6304	>.2	0.042	0.017	0.032
ppm Water	ppm	ASTM D6304	>2000	420	172	322.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u> </u>	▲ 225096	🔺 190456
Particles >6µm		ASTM D7647	>5000	<u> </u>	162896	107142
Particles >14µm		ASTM D7647	>640	233	12678	<b>9</b> 08
Particles >21µm		ASTM D7647	>160	22	<b>5</b> 49	25
Particles >38µm		ASTM D7647	>40	1	4	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>A</b> 25/23/15	▲ 25/25/21	▲ 25/24/17
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.74	0.73	0.76

Contact/Location: MIKE BARRY - BASTARHD Page 1 of 2



# **OIL ANALYSIS REPORT**





2/24

2010

Color

Bottom





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	LIGHT	LIGHT
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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		57.7	58.0	58.4
Visc @ 100°C	cSt	ASTM D445		10.3	10.4	10.4
Viscosity Index (VI)	Scale	ASTM D2270		168	170	168
SAMPLE IMAGES		method	limit/base	current	history1	history2
						Fleet







 Certificate 12367
 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)

Report Id: bastarhd [WUSCAR] 06201497 (Generated: 06/11/2024 11:42:57) Rev: 1

Contact/Location: MIKE BARRY - BASTARHD

T:

F:

Contact: MIKE BARRY

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