

OIL ANALYSIS REPORT

Area HOWARD SHEPPARD 2609 HOWARD SHEPPARD

Rear Differential

{not provided} (--- GAL)

DIAGNOSIS

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.

		Auş	2022	Aug2023 Apr202	4	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934580	WC0876057	WC0771213
Sample Date		Client Info		17 Apr 2024	29 Aug 2023	15 Aug 2022
Machine Age	mls	Client Info		166790	107675	366
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	254	165	<1
Chromium	ppm	ASTM D5185m	>10	1	<1	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	2
Aluminum	ppm	ASTM D5185m	>25	8	6	0
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	1	<1	0
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		303	234	264
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		4	3	0
Magnesium	ppm	ASTM D5185m		5	<1	1
Calcium	ppm	ASTM D5185m		0	2	1
Phosphorus	ppm	ASTM D5185m		1465	1424	1451
Zinc	ppm	ASTM D5185m		9	5	5
Sulfur	ppm	ASTM D5185m		24696	23081	23167
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	31	23	0
Sodium	ppm	ASTM D5185m		3	4	<1
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water	%	ASTM D6304	>.2	0.023	0.037	0.056
ppm Water	ppm	ASTM D6304	>2000	239	378	568.8
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u> </u>		4546
Particles >6µm		ASTM D7647	>5000	<u> </u>		1060
Particles >14µm		ASTM D7647	>640	354		57
Particles >21µm		ASTM D7647	>160	32		13
Particles >38µm		ASTM D7647	>40	1		1
Particles >71µm		ASTM D7647	>10	0		0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	25/24/16		19/17/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.06	2.32	2.39

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Sample Rating Trend





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VISUAL		method	limit/base	current	history1	history2
Vhite Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ellow 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	A MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
ppearance	scalar	*Visual	NORML	NORML	NORML	NORML
Ddor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
ree Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
/isc @ 40°C	cSt	ASTM D445		57.5	57.8	53.7
/isc @ 100°C	cSt	ASTM D445		10.5	10.3	10.1
iscosity Index (VI)	Scale	ASTM D2270		174	168	178
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						Trains FAM

Bottom



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

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Certificate 12367

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