

OIL ANALYSIS REPORT

Sample Rating Trend

Area HOWARD SHEPPARD 2610 HOWARD SHEPPARD

Rear Differential Fluid GEAR OIL SAE 80 (--- GAL)

DIAGNOSIS

A Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

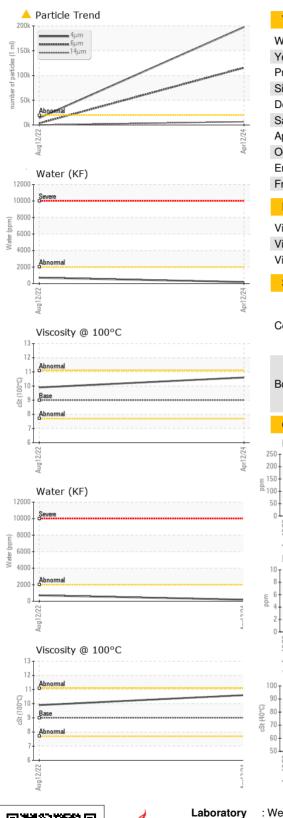
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934578	WC0771215	
Sample Date		Client Info		12 Apr 2024	12 Aug 2022	
Machine Age	mls	Client Info		173135	350	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	229	2	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>10	<1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	8	<1	
Lead		ASTM D5185m	>25	۰ <1	<1	
	ppm			<1		
Copper	ppm	ASTM D5185m	>100	-	0	
Tin	ppm	ASTM D5185m	>10	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	280	290	
Barium	ppm	ASTM D5185m	200	<1	0	
Molybdenum	ppm	ASTM D5185m	12	<1	0	
Manganese	ppm	ASTM D5185m		5	<1	
Magnesium	ppm	ASTM D5185m	12	14	<1	
Calcium	ppm	ASTM D5185m	150	<1	<1	
Phosphorus	ppm	ASTM D5185m	1650	1397	1492	
Zinc	ppm	ASTM D5185m	125	10	2	
Sulfur	ppm	ASTM D5185m	22500	23582	27283	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	29	1	
Sodium	ppm	ASTM D5185m	210	3	<1	
Potassium		ASTM D5185m	>20	2	<1	
	ppm %			_	<1	
Water		ASTM D6304		0.018		
ppm Water	ppm	ASTM D6304		189	709.1	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u> </u>	14147	
Particles >6µm		ASTM D7647	>5000	<u> </u>	3433	
Particles >14µm		ASTM D7647	>640	<u> </u>	123	
Derticles, Olum		ASTM D7647	>160	<u> </u>	25	
Particles >2 rµm		ASTM D7647	>40	14	1	
Particles >21µm Particles >38µm				4	0	
		ASTM D7647	>10	1	0	
Particles >38µm		ASTM D7647 ISO 4406 (c)	>10 >21/19/16	I <u> 4</u> 25/24/20	21/19/14	
Particles >38µm Particles >71µm						

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OIL ANALYSIS REPORT



0	VISUAL		method	limit/base	current	history1	history2
and the second se	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
- THE OWNER WATER OF THE OWNER	Precipitate	scalar	*Visual	NONE	NONE	NONE	
et all a second s	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Apr12/24	Appearance	scalar	*Visual	NORML	NORML	NORML	
Apri	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>.2	NEG	NEG	
	Free Water	scalar	*Visual		NEG	NEG	
	FLUID PROPERT	IES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	74	60.3	53.6	
	Visc @ 100°C	cSt	ASTM D445	9.0	10.6	9.9	
	Viscosity Index (VI)	Scale	ASTM D2270	94	167	173	
	SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Apr12/24						- AC Re	
	Color					Correction of the second secon	no image
	Bottom						no image
	GRAPHS						
Apr12/24 +	Ferrous Alloys	_		7.6	80 20 Abnormal		-24 -22 -20 75
	Non-ferrous Metal	5		of ba			-20 ISO 4406:1999 Cleanliness Code
	und 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Apr12/24	30 - 8 - 2 -		12 de 10
	Viscosity @ 40°C				Acid Number	14μ 21μ	38µ 71µ
	90 - Base 80 - Base 70 - Abnormal			Number (mg KOH/g)	Abnormal 2.0 - Abnormal .0 - Abnormal		
VCIC 1V	Aug12/22			Apr12/24	Aug 12/22		Apr12/24
Unique Number Test Package sample report,	: WearCheck USA - 50 : WC0934578 : 06201496 : 11063619 : MOB 2 (Additional Te contact Customer Servi are outside of the ISO 1	Rece Teste Diagr sts: KF, ce at 1-8	ived : 06 ed : 07 nosed : 11 KV100, PrtC 800-237-1369	5 Jun 2024 7 Jun 2024 Jun 2024 - Jona ount, VI) 9.		TAR Contact:	A CREDAROLI TE PLAINS RD RYTOWN, NY US 10591 MIKE BARRY arry@basf.com

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)

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Certificate L2367

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