

OIL ANALYSIS REPORT

Area HOWARD SHEPPARD Machine Id 2577 HOWARD SHEPPARD Component

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

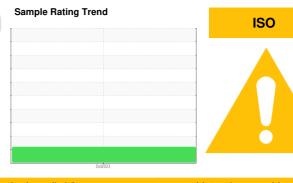
All component wear rates are normal.

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.

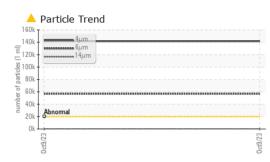


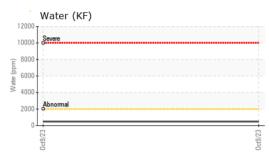
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0876064		
Sample Date		Client Info		09 Oct 2023		
Machine Age	mls	Client Info		130279		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	30		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	6		
Lead	ppm	ASTM D5185m	>25	0		
Copper	ppm	ASTM D5185m	>100	0		
Tin	ppm	ASTM D5185m	>100	0		
Vanadium	ppm	ASTM D5185m	~10	0		
				0		
Cadmium	ppm	ASTM D5185m		U		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		249		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		<1		
Phosphorus	ppm	ASTM D5185m		1445		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		23405		
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	13		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>.2	0.047		
ppm Water	ppm	ASTM D6304	>2000	480		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	141724		
Particles >6µm		ASTM D7647	>5000	▲ 56889		
Particles >14µm		ASTM D7647	>640	335		
Particles >21µm		ASTM D7647	>160	45		
Particles >38µm		ASTM D7647	>40	45 1		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 24/23/16		
		()				
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.48		

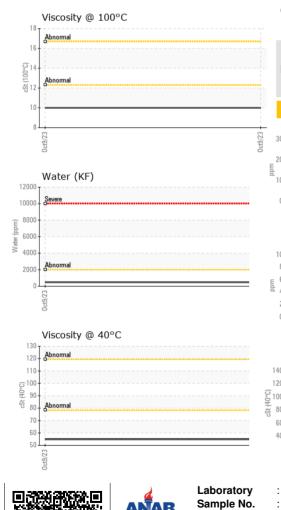
mg KOH/g ASTM D8045



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>.2	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPERTI	ES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		54.8		
Visc @ 100°C	cSt	ASTM D445		10.0		
Viscosity Index (VI)	Scale	ASTM D2270		171		
- SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom			(no image	no image
GRAPHS						
Ferrous Alloys				Particle Count		
			491,52	Severe		[²
20 - E			122,88	0		-2
² 10-			30,72	Abnormal		-2
0				0		+2
0ct9/23			0ct9/23			
õ			o be [1,52]		•	1
Non-ferrous Metals			otued 48	0-		
10 8			CC(8) CC (2000)	0 -		+2
E 6 -			ame 3	0		
					/	
2				8-		1
0ct9/23			0ct9/23	2-		1
			õ	0 4μ 6μ	14µ 21µ	38µ 71µ
Viscosity @ 40°C				Acid Number	, T	
120 - Abnormal			(B)HOX 2.	0		
€ 0 0 0 100			Ĕ1.	5-		
			- e 1.	0 🛉		
60			N Di	5		
			1/23	0/23		
0 ct3			0 ct9	Oct6		
- T	D1 Madis	son Ave., Ca	ezz(600) ezz(60	0ctp/33	BASF - GIANN	A CREDA

Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI) Contact: GIANNA CREDAROLI Certificate L2367 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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