

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area MET EXPRESS MET EXPRESS 24002 Component

Rear Differential Fluid GEAR OIL SAE 80 (--- 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.

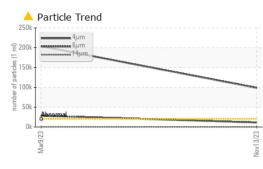
Fluid Condition

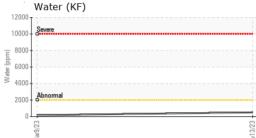
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

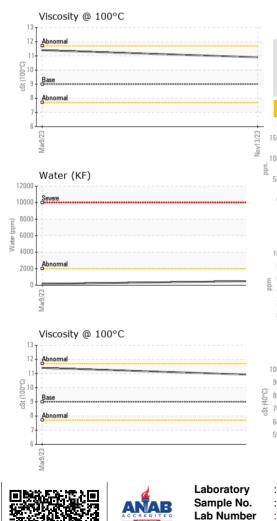
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0843131	WC0797133	
Sample Date		Client Info		13 Nov 2023	09 Mar 2023	
Machine Age	mls	Client Info		75315	2208	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	106	58	
Chromium	ppm	ASTM D5185m	>10	0	<1	
Nickel	ppm	ASTM D5185m	>10	0	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	2	0	
Lead	ppm	ASTM D5185m	>25	0	0	
Copper	ppm	ASTM D5185m		<1	<1	
Tin	ppm	ASTM D5185m	>100	0	0	
Vanadium	ppm	ASTM D5185m	210	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	439	540	
Barium	ppm	ASTM D5185m	200	4	5	
Molybdenum	ppm	ASTM D5185m	12	0	<1	
Manganese	ppm	ASTM D5185m		3	4	
Magnesium	ppm	ASTM D5185m	12	4	2	
Calcium	ppm	ASTM D5185m	150	12	12	
Phosphorus	ppm	ASTM D5185m	1650	2068	1952	
Zinc	ppm	ASTM D5185m	125	14	9	
Sulfur	ppm	ASTM D5185m	22500	23081	23067	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	56	23	
Sodium	ppm	ASTM D5185m		10	9	
Potassium	ppm	ASTM D5185m	>20	<1	2	
Water	%	ASTM D6304	>.2	0.050	0.016	
ppm Water	ppm	ASTM D6304	>2000	505.3	166.1	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u> </u>	2 03797	
Particles >6µm		ASTM D7647	>5000	🔺 11318	2 8554	
Particles >14µm		ASTM D7647	>640	124	241	
Particles >21µm		ASTM D7647	>160	36	20	
Particles >38µm		ASTM D7647	>40	3	0	
Particles >71µm		ASTM D7647	>10	1	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	4 24/21/14	▲ 25/22/15	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	2.80	3.28	



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	LIGHT	VLITE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	HAZY	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
			live it //e e e e			
FLUID PROPERT		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	74	63.7	66.8	
Visc @ 100°C	cSt	ASTM D445	9.0	10.9	11.4	
Viscosity Index (VI)	Scale	ASTM D2270	94	163	165	
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color					Per User.	no image
Bottom				\bigcirc		no image
GRAPHS						
Ferrous Alloys			491,520-	Particle Coun	ıt	20
iron			491,520	Severe		1 ²⁶
nessessesses chromium			122,880	·		-24
			30,720	Abnomia		-22
			- 7,680	. / .	•	20.3
9/23			3/23	1		720 8
Mar9/23			Nov13/23 (per 1 ml	1	•	+20 g +18 g +14 g +12 g
Non-ferrous Metals	5		·단 480-	```	\`	-16
I			E2/E1/2014 (ml 1,920) 800 (ml 1,920)		\backslash	
copper			ag 120-			14
tin			≅ 30-			-12 8
			8.			-10
 ~~	********	******				
Mar9/23			Nov13/23			
			2 0- 4	и 6µ	14µ 21µ	38µ 71µ
Viscosity @ 40°C			7)	Acid Number		-sp rip
Abnormal			(8)4.0 XHOX BW) 3.0 BW) 12.0 MWN F	Abnormal		
Page			¥ 3.0- ₽	Abnormal		
Base			ja 2.0-	Base		
Abnormal				Abnormal		
Li				23		m
Mar9/23			Nov13/23	Mar9/23		Nov13/23
~			Nc	-		N
06007688	Received Diagnos Diagnos	d : 14 ed : 16 tician : Dor	Nov 2023 Nov 2023 n Baldridge			E PLAINS RD RYTOWN, NY US 10591

 Certificate L2367
 Test Package
 : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)
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 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 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)
 *

Unique Number

Т:

F:

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