

OIL ANALYSIS REPORT

Sample Rating Trend



Area METRO METRO 25007

Component Rear Differential Fluid {not provided} (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

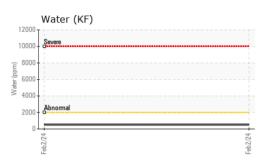
Fluid Condition

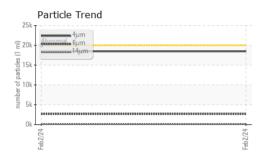
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

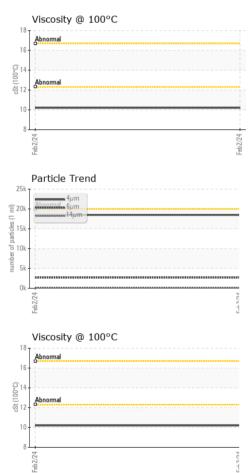
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934534		
Sample Date		Client Info		02 Feb 2024		
Machine Age	mls	Client Info		2199		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	3		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>25	2		
Lead	ppm	ASTM D5185m	>25	<1		
Copper	ppm	ASTM D5185m	>100	<1		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		314		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		1		
Phosphorus	ppm	ASTM D5185m		1742		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		30301		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	1		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	1		
Water	%	ASTM D6304	>.2	0.050		
ppm Water	ppm	ASTM D6304	>2000	504		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	18470		
Particles >6µm		ASTM D7647	>5000	2662		
Particles >14µm		ASTM D7647	>640	114		
Particles >21µm		ASTM D7647	>160	30		
Particles >38µm		ASTM D7647	>40	1		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/19/14		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.62		



OIL ANALYSIS REPORT







scalar scalar scalar scalar scalar scalar	method *Visual	limit/base	current	history1	history
scalar scalar scalar	*Visual				
scalar scalar		NONE	NONE		
scalar	*Visual	NONE	NONE		
	*Visual	NONE	NONE		
scalar	*Visual	NONE	NONE		
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		limit/base		history1	history
I) Scale	ASTM D2270		164		
iES	method	limit/base	current	history1	history
				no image	no image
				no image	no image
			Particle Count	-	
		401 520			
		491,520			
		491,520	L	-	
		122,880	L		
		30,720	Severe		
		30,720	Severe	•	
		30,720	Severe		
		30,720	Severe		
tals		30,720	Severe		
		30,720	Severe		
		122,880 30,720 122,880 30,720 1,920 1,920 1,920 1,920 1,920 1,920 1,920 1,920 1,920	Severe Abnormal		
		122,880 30,720 7,680 7,680 7,680 1,920 97 97 97 97 97 97 97 97 97 97 97 97 97	Severe Abnormal		
		122,880 30,720 7,680 7,680 7,680 1,920 9,999 9,999 480 1,920 1,920 480 1,920 1,920 1,920 480 1,920 1,9	Severe Abnormal		
		122,880 30,720 7,680 7,680 7,680 1,920 9,999 9,999 480 1,920 1,920 480 1,920 1,920 1,920 480 1,920 1,9	Severe Abnormal		
tals		122,880 30,720 7,680 7,680 7,680 1,920 97 97 97 97 97 97 97 97 97 97 97 97 97	Severe Abnormal	144 214	364 7
		122,880 30,720 Te 7,680 27,99 40,00 480 1,920 480 1,920 480 1,920 480 120 30 480 30 480 30 480 480 30 480 480 480 480 480 480 480 480 480 48	Severe Abnormal		<u></u> 38μ 7
tals		122,880 30,720 Te 7,680 27,99 40,00 480 1,920 480 1,920 480 1,920 480 120 30 480 30 480 30 480 480 30 480 480 480 480 480 480 480 480 480 48	Abnormal		36μ 7
tals		122,880 30,720 14,7680 1,920 1	Abnormal		36µ 7
tals		122,880 30,720 14,7680 1,920 1	Abnormal		38μ 7
tals		122,880 30,720 14,7680 1,920 1	Abnormal		36μ 7
tals		122,880 30,720 Te 7,680 27,99 40,00 480 1,920 480 1,920 480 1,920 480 120 30 480 30 480 30 480 480 30 480 480 480 480 480 480 480 480 480 48	Abnormal		38µ 7
	scalar scalar scalar RTIES cSt cSt (1) Scale	scalar *Visual scalar *Visual RTIES method cSt ASTM D445 cSt ASTM D445 visual ASTM D2270	scalar*Visual>.2scalar*VisualImit/baseRTIESmethodImit/basecStASTM D445cStASTM D445rlyScaleASTM D2270	scalar *Visual NORML NORML scalar *Visual >.2 NEG scalar *Visual Imit/base current cSt ASTM D445 58.2 cSt ASTM D445 10.2 rl) Scale ASTM D2270 164 GES method limit/base current	scalar *Visual NORML NORML scalar *Visual >.2 NEG scalar *Visual >.2 NEG scalar *Visual >.2 NEG scalar *Visual NEG RTIES method limit/base current history1 cSt ASTM D445 58.2 cSt ASTM D445 10.2 /I) Scale ASTM D2270 164 GES method limit/base current history1 no image no image no image

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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