

OIL ANALYSIS REPORT

Sample Rating Trend



Area METRO METRO 20003 Component

Component Rear Differential Fluid {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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934472	WC0828743	WC0682393
Sample Date		Client Info		19 Mar 2024	22 Jun 2023	24 Mar 2022
Machine Age	mls	Client Info		499176	432638	333028
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	267	285	273
Chromium	ppm	ASTM D5185m	>10	2	2	2
Nickel	ppm	ASTM D5185m	>10	2	2	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	4	3	2
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>100	1	2	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		86	53	59
Barium	ppm	ASTM D5185m		<1	2	0
Molybdenum	ppm	ASTM D5185m		0	1	<1
Manganese	ppm	ASTM D5185m		3	3	3
Magnesium	ppm	ASTM D5185m		136	148	163
Calcium	ppm	ASTM D5185m		9	5	4
Phosphorus	ppm	ASTM D5185m		1706	1632	1778
Zinc	ppm	ASTM D5185m		4	6	1
Sulfur	ppm	ASTM D5185m		28096	24806	19598
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	48	52	48
Sodium	ppm	ASTM D5185m		13	2	5
Potassium	ppm	ASTM D5185m	>20	4	4	3
Water	%	ASTM D6304	>.2	0.030	0.032	0.033
ppm Water	ppm	ASTM D6304	>2000	309	322.2	332.4
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u> </u>	A 81425	
Particles >6µm		ASTM D7647	>5000	<u> </u>	4847	
Particles >14µm		ASTM D7647	>640	238	72	
Particles >21µm		ASTM D7647	>160	28	15	
Particles >38µm		ASTM D7647	>40	1	1	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 25/22/15	2 4/19/13	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.95	0.74	0.69

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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow 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	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		61.3	51.6	52.2
Visc @ 100°C	cSt	ASTM D445		10.0	9.6	9.8
Viscosity Index (VI)	Scale	ASTM D2270		149	173	176
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				a		Field Units Cost

Bottom



* - 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 12367

Contact/Location: GIANNA CREDAROLI - BASTARHD

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