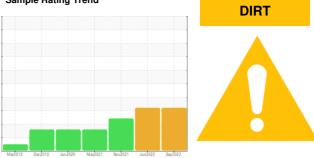


OIL ANALYSIS REPORT

Sample Rating Trend



METRO 20019 Component **Front Differential**

NOT GIVEN (--- GAL)

DIAGNOSIS

Area METRO

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

A Wear

Gear wear is indicated.

Contamination

There is a high amount of silt (particulates < 6 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

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		WC0843122	WC0728422	WC0642317
Sample Date		Client Info		30 Sep 2023	26 Jun 2022	05 Nov 2021
Machine Age	mls	Client Info		435760	292737	246652
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	7 30	▲ 569	▲ 537
Chromium	ppm	ASTM D5185m	>10	5	5	5
Nickel	ppm	ASTM D5185m	>10	4	3	3
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	3	3
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	3	3	3
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m	>5			0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		225	228	283
Barium	ppm	ASTM D5185m		6	2	5
Molybdenum	ppm	ASTM D5185m		<1	1	0
Manganese	ppm	ASTM D5185m		23	20	19
Magnesium	ppm	ASTM D5185m		2	<1	1
Calcium	ppm	ASTM D5185m		16	12	14
Phosphorus	ppm	ASTM D5185m		1955	1863	2056
Zinc	ppm	ASTM D5185m		21	15	16
Sulfur	ppm	ASTM D5185m		22992	25056	35474
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		▲ 159	▲ 123	▲ 124
Sodium	ppm	ASTM D5185m	210	14	13	13
Potassium	ppm	ASTM D5185m	>20	13	12	9
Water	%	ASTM D510511		0.068	0.085	0.047
ppm Water	ppm	ASTM D6304		689.1	858.7	478.4
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	48807	▲ 81469	
Particles >6µm		ASTM D7647	>5000	2981	2285	
Particles >14µm		ASTM D7647	>640	94	146	
Particles >21µm		ASTM D7647	>160	25	39	
Particles >38µm		ASTM D7647	>40	1	1	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 23/19/14	4 /18/14	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN) :18:22) Rev: 1	mg KOH/g	ASTM D8045	Contact	3.07	3.01 NA CREDARO	3.078

Report Id: bastarhd [WUSCAR] 06007686 (Generated: 11/16/2023 15:18:22) Rev: 1

Contact/Location: GIANNA CREDAROLI - BASTARHD



OIL ANALYSIS REPORT



Contact/Location: GIANNA CREDAROLI - BASTARHD

US 10591

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history2

history

history2

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