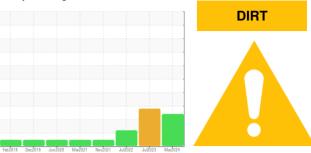


OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend

limit/base



history1

current

history2

METRO 20005 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

Area

All component wear rates are normal.

Contamination

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

Fluid Condition

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

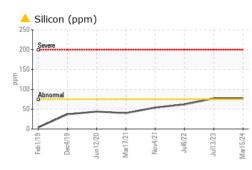
SAMIFLE INFURIN		method	iimi/base	current	riistory i	nistory2
Sample Number		Client Info		WC0934474	WC0843182	WC0728427
Sample Date		Client Info		15 Mar 2024	13 Jul 2023	06 Jul 2022
Machine Age	mls	Client Info		508207	444251	338372
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
			>500			
Iron	ppm	ASTM D5185m		295	240	184 1
Chromium	ppm	ASTM D5185m		2	2	
Nickel	ppm	ASTM D5185m	>10	2	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m		4	3	2
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	2	2	1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m	>5			
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		61	70	47
Barium	ppm	ASTM D5185m		1	1	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		4	3	2
Magnesium	ppm	ASTM D5185m		149	139	153
Calcium	ppm	ASTM D5185m		7	6	2
Phosphorus	ppm	ASTM D5185m		1715	1571	1551
Zinc	ppm	ASTM D5185m		6	8	2
Sulfur	ppm	ASTM D5185m		27918	24947	25056
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	A 77	▲ 77	62
Sodium	ppm	ASTM D5185m		9	6	6
Potassium	ppm	ASTM D5185m	>20	3	3	<1
Water	%	ASTM D6304	>.2	0.039	0.038	0.048
ppm Water	ppm	ASTM D6304	>2000	392	380.4	481.0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	931808	▲ 142910	A 97518
Particles >6µm		ASTM D7647	>5000	1146	A 22300	7997
Particles >14µm		ASTM D7647	>640	11	127	154
Particles >21µm		ASTM D7647	>160	2	13	40
Particles >38µm		ASTM D7647	>40	0	0	4
Particles >71µm		ASTM D7647		0	0	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	22/17/11	▲ 24/22/14	<u> </u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN) :40:08) Rev: 1	mg KOH/g	ASTM D8045		0.93 /Location: GIAN	0.83	0.68

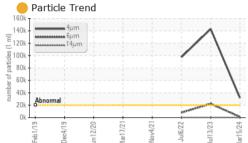
Report Id: bastarhd [WUSCAR] 06179406 (Generated: 05/21/2024 08:40:08) Rev: 1

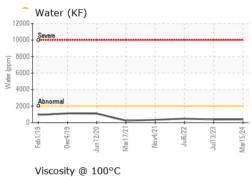
Contact/Location: GIANNA CREDAROLI - BASTARHD

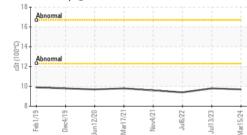


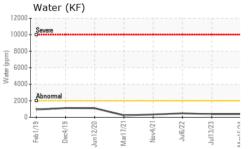
OIL ANALYSIS REPORT









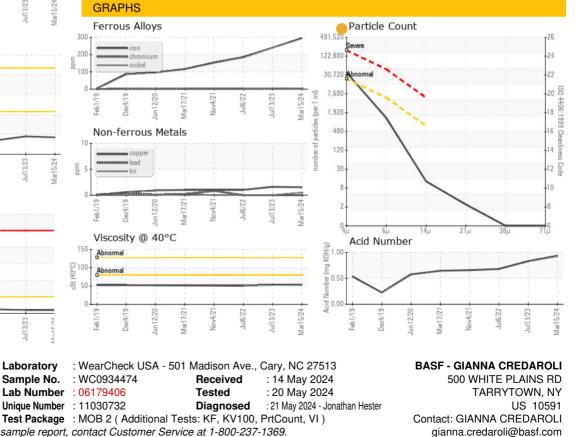




Color

Bottom





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)

Report Id: bastarhd [WUSCAR] 06179406 (Generated: 05/21/2024 08:40:09) Rev: 1

Certificate 12367

Contact/Location: GIANNA CREDAROLI - BASTARHD

T:

F: