

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area **TSI** Machine Id **12851** 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. Please note that this is a corrected copy for laboratory data updates to ICP data.

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

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

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934506	WC0843271	
Sample Date		Client Info		06 Jan 2024	21 Jul 2023	
Machine Age	mls	Client Info		129728	42709	
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	79	77	
Chromium	ppm	ASTM D5185m	>10	0	<1	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	0	0	
Lead	ppm	ASTM D5185m	>25	0	0	
Copper	ppm	ASTM D5185m	>100	<1	<1	
Tin	ppm	ASTM D5185m	>10	0	<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		190	241	
Barium	ppm	ASTM D5185m		3	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		4	6	
Magnesium	ppm	ASTM D5185m		<1	4	
Calcium	ppm	ASTM D5185m		3	4	
Phosphorus	ppm	ASTM D5185m		1526	1483	
Zinc	ppm	ASTM D5185m		17	7	
Sulfur	ppm	ASTM D5185m		27537	25056	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	7	8	
Sodium	ppm	ASTM D5185m		2	4	
Potassium	ppm	ASTM D5185m	>20	0	3	
Water	%	ASTM D6304	>.2	0.038	0.036	
ppm Water	ppm	ASTM D6304	>2000	384	367.3	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	A 115679	<mark>▲</mark> 123707	
Particles >6µm		ASTM D7647	>5000	<u> </u>	▲ 45296	
Particles >14µm		ASTM D7647	>640	<u> </u>	1 267	
Particles >21µm		ASTM D7647	>160	109	45	
Particles >38µm		ASTM D7647	>40	1	1	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 24/22/17	4 /23/17	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.26	2.31	

Contact/Location: GIANNA CREDAROLI - BASTARHD Page 1 of 2



OIL ANALYSIS REPORT

scalar

cSt

cSt

Scale

method

*Visual

method

ASTM D445

ASTM D445

ASTM D2270

method

limit/base

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

limit/base

limit/base

>.2

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

curren

current

NEG

NEG

57.7

10.4

171

history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

historv1

NFG

NEG

57.7

10.5

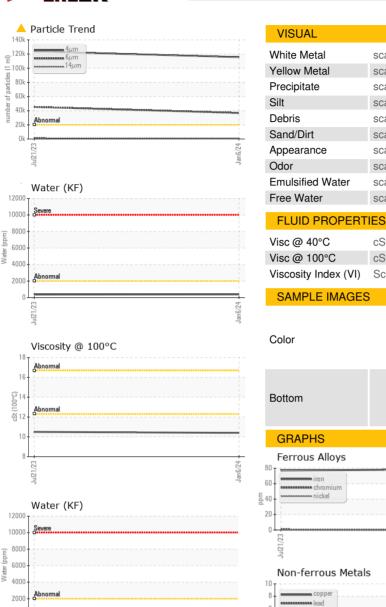
173

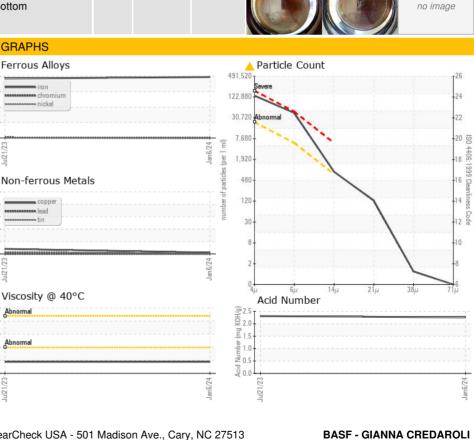
history2

history

history2

no image







Abnorma 80

0

130

120

110

CSt (40°C) 06 (40°C) 08 (40°C)

70

60

50

Viscosity @ 40°C

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0934506 Received : 15 May 2024 500 WHITE PLAINS RD Lab Number Tested : 22 May 2024 TARRYTOWN, NY :06180626 Unique Number : 11031952 Diagnosed : 22 May 2024 - Jonathan Hester US 10591 Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI) Contact: GIANNA CREDAROLI Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. gianna.credaroli@basf.com * - 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)

140

120 (100 (40°C)

80 S

60

40

Ab

Ah

Contact/Location: GIANNA CREDAROLI - BASTARHD

T:

F: