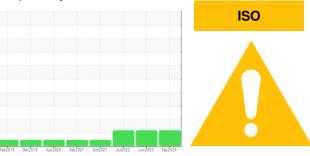


OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend

limit/base



history1

current

history2

METRO 20007 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 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.

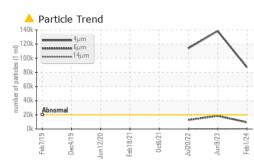
SAMPLE INFORM		method	limit/base	current	nistory i	nistory2
Sample Number		Client Info		WC0934516	WC0828807	WC0728435
Sample Date		Client Info		01 Feb 2024	09 Jun 2023	20 Jul 2022
Machine Age	mls	Client Info		492859	446898	356182
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base			
				current	history1	history2
ron	ppm	ASTM D5185m	>500	411	361	240
Chromium	ppm	ASTM D5185m	>10	3	2	2
Nickel	ppm	ASTM D5185m	>10	3	3	<1
Fitanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	4	4	2
_ead	ppm	ASTM D5185m	>25	<1	<1	0
Copper	ppm	ASTM D5185m	>100	2	1	1
Γin	ppm	ASTM D5185m	>10	<1	<1	0
Antimony	ppm	ASTM D5185m	>5			
/anadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
			iiiiii/base			
Boron	ppm	ASTM D5185m		55	47	46
Barium	ppm	ASTM D5185m		<1	<1	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		4	4	2
Magnesium	ppm	ASTM D5185m		150	160	150
Calcium	ppm	ASTM D5185m		5	3	2
Phosphorus	ppm	ASTM D5185m		1916	1778	1572
Zinc	ppm	ASTM D5185m		12	0	5
Sulfur	ppm	ASTM D5185m		28071	29217	25056
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	52	50	47
Sodium	ppm	ASTM D5185m		9	8	7
Potassium	ppm	ASTM D5185m	>20	9	8	4
Water	%	ASTM D6304	>.2	0.034	0.032	0.055
opm Water	ppm	ASTM D6304		347	327.7	554.7
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	87056	138345	▲ 113993
Particles >6µm		ASTM D7647		9454	▲ 18504	▲ 12734
Particles >14µm		ASTM D7647	>640	256	62	161
Particles >21µm		ASTM D7647		44	12	28
Particles >38µm		ASTM D7647 ASTM D7647	>40	1	1	1
Particles >71µm		ASTM D7647 ASTM D7647		0	1	0
Dil Cleanliness						
		ISO 4406 (c)	>21/19/16	A 24/20/15	4/21/13	▲ 24/21/15
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN) 06:03) Rev: 1	mg KOH/g	ASTM D8045	Contact	0.91 /Location: GIAN	0.89 NA CREDARO	0.73 LI - BASTARHI

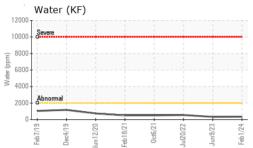
Report Id: bastarhd [WUSCAR] 06180663 (Generated: 05/18/2024 17:06:03) Rev: 1

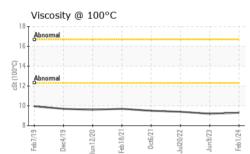
Contact/Location: GIANNA CREDAROLI - BASTARHD

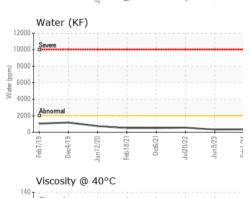


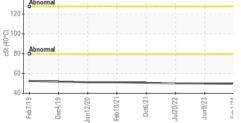
OIL ANALYSIS REPORT







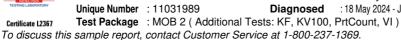




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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		49.6	49.8	50.0
Visc @ 100°C	cSt	ASTM D445		9.3	9.2	9.4
Viscosity Index (VI)	Scale	ASTM D2270		173	169	174
SAMPLE IMAGES		method	limit/base	current	history1	history2
					Fleet_	



GRAPHS Ferrous Alloys Particle Count 491.52 600 400 122.88 nicke 200 30.72 20 8 7 68 Feb1/24 Feb18/21 Feb7/19 lct6/71 Dec4/1 4406: (per 1 1.920 18 ī icles 480 Non-ferrous Metals 120 14 30 12 0 eb1/24 eb18/7 C18tra 2 eb7/1 Dec4/1 Ξ 384 64 144 214 Viscosity @ 40°C Acid Number (B/H0) KOH/0) 150 Abnorma (100 CS (10°C) 20 CS ВШ Abnorn - Pg 0.00 Jun9/23 -Feb1/24. Feb18/21 ul20/22 Dec4/19 Feb7/19 12/20 0ct6/21 **Dct6/21** un9/23 eb1/24 Jec4/19 Feb7/19 un12/20 Feb18/21 : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **BASF - GIANNA CREDAROLI** : WC0934516 Received : 15 May 2024 500 WHITE PLAINS RD Lab Number : 06180663 Tested : 17 May 2024 TARRYTOWN, NY : 18 May 2024 - Jonathan Hester Diagnosed US 10591



Laboratory

Sample No.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Color

Bottom

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: bastarhd [WUSCAR] 06180663 (Generated: 05/18/2024 17:06:03) Rev: 1

Contact/Location: GIANNA CREDAROLI - BASTARHD

T:

F:

Contact: GIANNA CREDAROLI

gianna.credaroli@basf.com