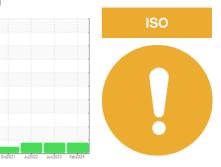


OIL ANALYSIS REPORT

Sample Rating Trend



METRO 20007 Component Front Differential Fluid {not provided} (--- GAL)

DIAGNOSIS

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

Area

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 6 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.

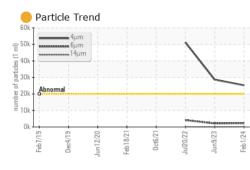
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934515	WC0828808	WC0728436
Sample Date		Client Info		01 Feb 2024	09 Jun 2023	20 Jul 2022
Machine Age	mls	Client Info		492859	446890	356182
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	472	468	399
Chromium	ppm	ASTM D5185m	>10	3	4	3
Nickel	ppm	ASTM D5185m	>10	2	5	3
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	3	2
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m		1	1	1
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m				
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		47	51	47
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	1	<1
Manganese	ppm	ASTM D5185m		7	7	6
Magnesium	ppm	ASTM D5185m		148	159	146
Calcium	ppm	ASTM D5185m		3	4	2
Phosphorus	ppm	ASTM D5185m		1653	1754	1490
Zinc	ppm	ASTM D5185m		2	0	5
Sulfur	ppm	ASTM D5185m		25688	29697	24926
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	56	53	48
Sodium	ppm	ASTM D5185m		7	7	6
Potassium	ppm	ASTM D5185m	>20	2	5	<1
Water	%	ASTM D6304		0.043	0.041	0.051
ppm Water	ppm	ASTM D6304	>2000	430	418.9	518.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	e 25247	28677	▲ 51169
Particles >6µm		ASTM D7647	>5000	2324	2169	4158
Particles >14µm		ASTM D7647	>640	130	28	109
Particles >21µm		ASTM D7647	>160	27	7	19
Particles >38µm		ASTM D7647	>40	1	2	2
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<mark>)</mark> 22/18/14	22/18/12	▲ 23/19/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	Contact	1.07		0.86

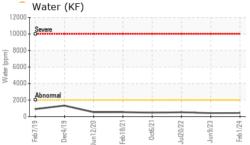
Report Id: bastarhd [WUSCAR] 06180643 (Generated: 05/22/2024 12:45:56) Rev: 1

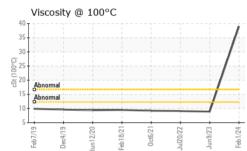
Contact/Location: GIANNA CREDAROLI - BASTARHD

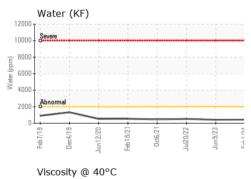


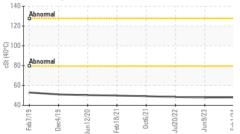
OIL ANALYSIS REPORT





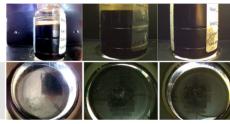


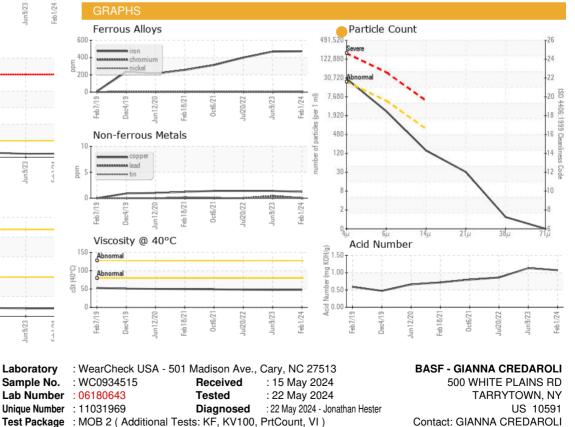


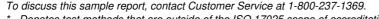


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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		48.0	47.9	48.3
Visc @ 100°C	cSt	ASTM D445		39.0	8.9	9.1
Viscosity Index (VI)	Scale	ASTM D2270		663	168	172
SAMPLE IMAGES		method	limit/base	current	history1	history2
					Het	Flee,







Color

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)

Report Id: bastarhd [WUSCAR] 06180643 (Generated: 05/22/2024 12:45:56) Rev: 1

Certificate 12367

Contact/Location: GIANNA CREDAROLI - BASTARHD

T:

F:

gianna.credaroli@basf.com