

METRO 20004

Front Differential NOT GIVEN (--- GAL)

Component

OIL ANALYSIS REPORT

Sample Rating Trend



DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0843179	WC0828745	WC0692942
No corrective action is recommended at this time.	Sample Date		Client Info		07 Aug 2023	26 Jun 2023	09 Apr 2022
Resample at the next service interval to monitor.	Machine Age	mls	Client Info		421484	409990	269507
Please note that this is a corrected copy for	Oil Age	mls	Client Info		0	0	0
aboratory elemental data.	Oil Changed		Client Info		N/A	N/A	N/A
Wear	Sample Status				ABNORMAL	ABNORMAL	NORMAI
All component wear rates are normal.							
Contamination	WEAR METALS		method	limit/base	current	history1	history2
here is a high amount of silt (particulates < 14	Iron	ppm	ASTM D5185m	>500	<u> </u>	472	443
nicrons in size) present in the oil.	Chromium	ppm	ASTM D5185m	>10	4	3	3
luid Condition	Nickel	ppm	ASTM D5185m	>10	3	3	0
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	6	4	4
	Lead	ppm	ASTM D5185m	>25	0	<1	<1
	Copper	ppm	ASTM D5185m	>100	2	2	2
	Tin	ppm	ASTM D5185m	>10	0	0	0
	Antimony	ppm	ASTM D5185m	>5			
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	nnm	ASTM D5185m		120	106	63
	Barium	ppm	ASTM D5185m		28	0	0
	Molybdonum	ppm	AGTM D5105m		20 -1	-1	1
	Manganasa	ppm	ASTM D5105m		<1 0	< 1	0
	Magaaajum	ppm	AGTM DE105m		9	102	156
	Calaium	ррп			131	123	156
	Calcium	ppm			40	49	64
	Phosphorus	ppm	ASTM D5185m		1616	1612	1683
	Zinc	ppm	ASTM D5185m		37	14	3
	Sulfur	ppm	ASTM D5185m		24957	25056	20306
	CONTAMINANTS	5	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>75	74	70	50
	Sodium	ppm	ASTM D5185m		10	8	5
	Potassium	ppm	ASTM D5185m	>20	5	5	5
	Water	%	ASTM D6304	>.2	0.045	0.046	0.035
	ppm Water	ppm	ASTM D6304	>2000	454.2	461.1	359.9
	FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>20000	90376	▲ 89307	
	Particles >6µm		ASTM D7647	>5000	<u> </u>	4 9651	
	Particles >14µm		ASTM D7647	>640	81	205	
	Particles >21um		ASTM D7647	>160	18	30	
	Particles >38um		ASTM D7647	>40	0	1	
	Particles >71um		ASTM D7647	>10	0	0	
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> </u>	A 24/20/15	
	FLUID DEGRADA	ATION	method	limit/base	current	history1	history?
	Acid Number (AN)	ma KOU/~	ACTM DODAE		1 46	1 51	0.00
	Acia Number (AN)	iiig KOH/g	NO I IVI DOU45		1.40	1 C. I	0.90

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Contact/Location: GIANNA CREDAROLI - BASTARHD



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18

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Feb 1

Water

lec4/19

un26/20

OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	LIGHT	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		52.0	52.4	48.1
Visc @ 100°C	cSt	ASTM D445		9.4	9.6	9.1
Viscosity Index (VI)	Scale	ASTM D2270		165	170	173
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				met erp.	Fleer	



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