

OIL ANALYSIS REPORT

SAMPLE INFORMATION

Sample Number

Sample Date

Client Info

Client Info

WEAR

WC0682395

26 Jun 2023 11 Mar 2022 27 Oct 2021

WC0631747

METRO **METRO 20001**

Component

Transmission (Manual)

NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the fluid and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

The aluminum level is severe. The tin level is severe.

Contamination

There is a high amount of particulates present in the fluid.

Fluid Condition

The AN level is at the top-end of the recommended limit.

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Feb2019 Dec2019	Jun2020	Mar2021	0ct2021	Mar2022	Jun2

WC0828733

Machine Age	mls	Client Info		355229	265136	231052
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	148	126	101
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	348	283	250
Lead	ppm	ASTM D5185m	>45	<1	<1	<1
Copper	ppm	ASTM D5185m	>225	27	24	21
Tin	ppm	ASTM D5185m	>10	5 7	4 6	4 1
Antimony	ppm	ASTM D5185m				0
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	317	308	279
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	<1	<1	<1
Manganese	ppm	ASTM D5185m	4	4	3
Magnesium	ppm	ASTM D5185m	3	3	3
Calcium	ppm	ASTM D5185m	50	54	50
Phosphorus	ppm	ASTM D5185m	1129	1200	1079
Zinc	ppm	ASTM D5185m	16	13	12
Sulfur	ppm	ASTM D5185m	1222	1006	1183

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	20	20	15
Sodium	ppm	ASTM D5185m		0	1	3
Potassium	ppm	ASTM D5185m	>20	7	8	5
Water	%	ASTM D6304	>0.1	0.058	0.043	0.073
ppm Water	ppm	ASTM D6304	>1000	585.3	437.5	739.2

ppin water	ррпп	AGTIVI DOJU4	>1000	303.3	407.0	100.2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	262257		
Particles >6µm		ASTM D7647	>2500	173292		
Particles >14µm		ASTM D7647	>320	929		
Particles >21µm		ASTM D7647	>80	20		
Particles >38µm		ASTM D7647	>20	0		
Particles >71µm		ASTM D7647	>4	0		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>\$\text{\Delta}\$ 25/25/17</u>		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

mg KOH/g ASTM D8045 Acid Number (AN)

3.74 ▲ 3.422 **▲** 3.475 Contact/Location: GIANNA CREDAROLI - BASTARHD



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