

OIL ANALYSIS REPORT

[150216] 20347089

Component

Transmission

SAE 30W (--- GAL)

Sample Rating Trend **WEAR**

DIAGNOSIS

Recommendation

The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Copper ppm levels are abnormal. Clutch disc wear or oil cooler leaching indicated.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

				Oct2023		
SAMPLE INFORMA	NOITA	method	limit/base	current	history1	history2
Sample Number		Client Info		CU0021212		
Sample Date		Client Info		02 Oct 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	15		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)		<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>50	4		
Lead	ppm	ASTM D5185(m)	>50	11		
Copper	ppm	ASTM D5185(m)	>200	^ 299		
Tin	ppm	ASTM D5185(m)	>10	2		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		18		
Barium	ppm	ASTM D5185(m)		2		
Molybdenum	ppm	ASTM D5185(m)		2		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		1195		
Calcium	ppm	ASTM D5185(m)		404		
Phosphorus	ppm	ASTM D5185(m)		1059		
Zinc	ppm	ASTM D5185(m)		1192		
Sulfur	ppm	ASTM D5185(m)		4597		
Lithium	ppm	ASTM D5185(m)		1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	6		
Sodium	ppm	ASTM D5185(m)		50		
Potassium	ppm	ASTM D5185(m)	>20	4		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0		
Nitration	Abs/cm	ASTM D7624*		3.8		
Sulfation	Abs/.1mm	ASTM D7415*		13.5		
FLUID DEGRADAT	ION	method	limit/base	current	history1	history2

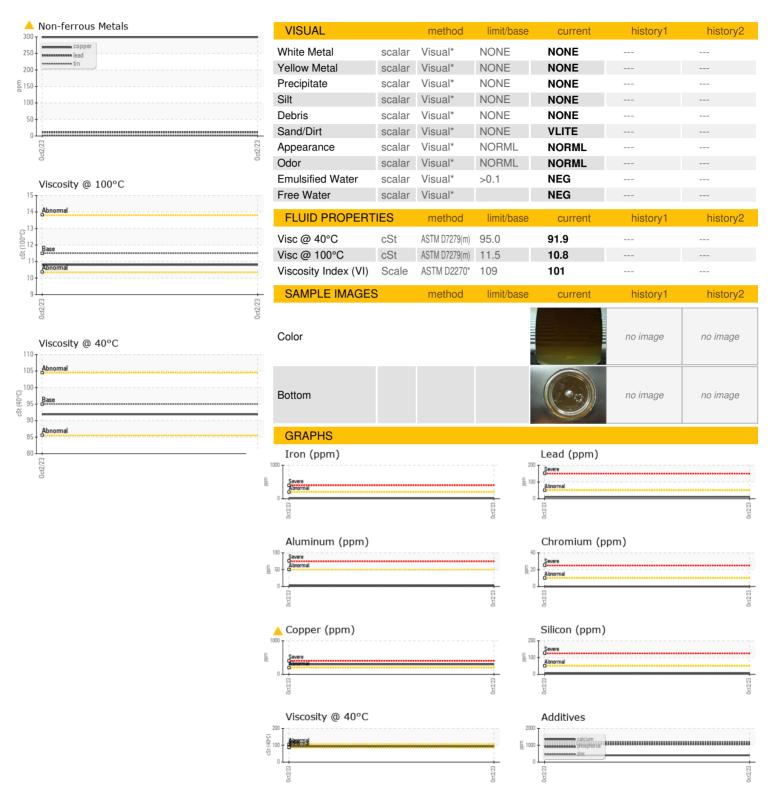
Oxidation

Abs/.1mm ASTM D7414*

5.5



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CUMMINS CANADA ULC - GENERATOR DIVISION

: CU0021212

: 02587926 : 5656992

Received : 10 Oct 2023 Diagnosed Diagnostician : Kevin Marson

: 11 Oct 2023

Test Package : MOB 1 (Additional Tests: FT-IR, KV100, VI)

CA L5T 2A5 Contact: Elisia Johnson elisia.johnson@cummins.com

T: (905)795-0050

7175 PACIFIC CIRCLE

MISSISSAUGA, ON

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied. F: (905)795-9252 Contact/Location: Elisia Johnson - CUMMISGEN