

MCMASTER UNIVERSITY [151223]

74670971

Diesel Engine

{not provided} (--- GAL)

RECOMMENDATION

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		CU0021849		
	Sample Date		Client Info		18 Jan 2024		
	Machine Age	hrs	Client Info		121		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
	·····						
WEAR	Iron	ppm	ASTM D5185(m)		2		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)		0		
	Nickel	ppm	ASTM D5185(m)		0		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)		<1		
	Lead	ppm	ASTM D5185(m)		0		
	Copper	ppm	ASTM D5185(m)		<1		
	Tin	ppm	ASTM D5185(m)	>15	0		
	Vanadium	ppm	ASTM D5185(m)		0		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	3		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)		0		
	Fuel	pp	WC Method		<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method		NEG		
	Soot %	%	ASTM D7844*	>6	0		
	Nitration	Abs/cm	ASTM D7624*	>20	6.4		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	19.6		
	Emulsified Water		Visual*	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		3		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		42		
	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		46		
	Manganese	ppm	ASTM D5185(m)		<1		
	Magnesium	ppm	ASTM D5185(m)		782		
	Calcium	ppm	ASTM D5185(m)		1148		
	Phosphorus	ppm	ASTM D5185(m)		698		

ASTM D5185(m)

ASTM D5185(m)

ASTM D7279(m)

ASTM D7414* >25

ppm

ppm

Abs/.1mm

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

CONTAMINATION

FLUID CONDITION

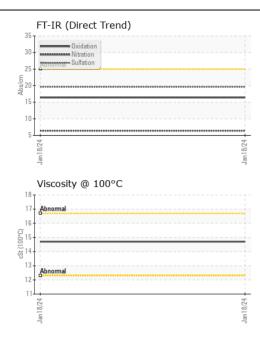
Contact/Location: Elisia Johnson - CUMMISGEN

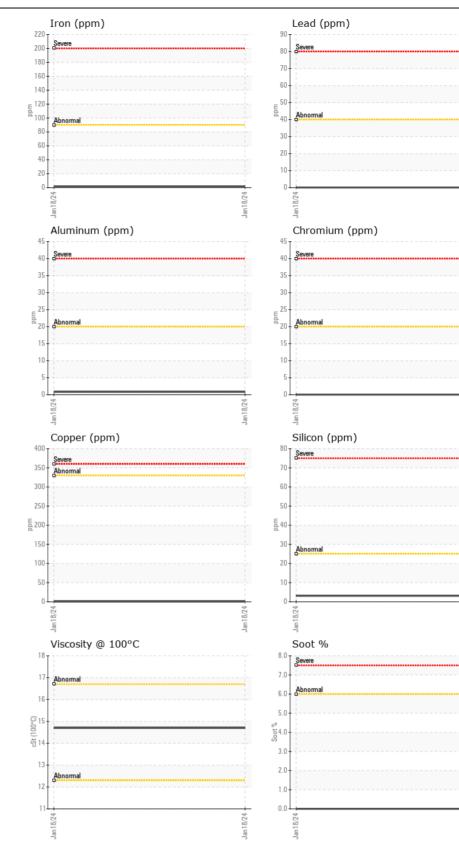
801

1913

16.4

14.7





: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CUMMINS CANADA ULC - GENERATOR DIVISION Laboratory CALA Sample No. Received 7175 PACIFIC CIRCLE : CU0021849 : 29 Apr 2024 Lab Number : 02631844 Tested : 29 Apr 2024 MISSISSAUGA, ON ISO 17025:2017 Accredited Laboratory Diagnosed Unique Number : 5772997 : 29 Apr 2024 - Kevin Marson CA L5T 2A5 Test Package : MOB 1 Contact: Elisia Johnson To discuss this sample report, contact Customer Service at 1-800-268-2131. elisia.johnson@cummins.com T: (905)795-0050 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 Page 2 of 2