WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

[156903]

G1
Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		CU0022824		
	Sample Date		Client Info		29 May 2024		
	Machine Age	hrs	Client Info		2156		
	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)	>90	6		
WEAT	Chromium	ppm	ASTM D5185(m)		0		
All component wear rates are normal.	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)		0		
	Vanadium	ppm	ASTM D5185(m)		0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		3		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)		<1		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol	0/	WC Method	0	NEG		
	Soot %	%	ASTM D7844*		0		
	Nitration	Abs/cm	ASTM D7624*	>20	7.9		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	21.1		
	Silt	scalar	Visual*	NONE	NONE		
	Debris Const/Dist	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual* Visual*	NONE	NONE NORML		
	Appearance	scalar	Visual*	NORML			
	Odor Emulsified Water	scalar		NORML >0.2	NORML NEG		
······	Emuisilea water	Scalar	visuai	>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)		49		
	Manganese	ppm	ASTM D5185(m)		0		
	Magnesium	ppm	ASTM D5185(m)		879		
	Calcium	ppm	ASTM D5185(m)		1084		
	Phosphorus	ppm	ASTM D5185(m)		778		
	Zinc	ppm	ASTM D5185(m)		921		
	Sulfur	ppm	ASTM D5185(m)		2162		
	Oxidation	Abs/.1mm	ASTM D7414*	>25	18.9		
	Visc @ 100°C	cSt	ASTM D7279(m)	14.5	14.0		





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02640657 Unique Number : 5789819

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : CU0022824

Test Package : MOB 1 (Additional Tests: Visual)

Received **Tested** Diagnosed

: 10 Jun 2024 : 10 Jun 2024

: 10 Jun 2024 - Kevin Marson

CN RAIL 76 INTERMODAL DR BRAMPTON, ON **CA L6T 5B3** Contact: Service Manager

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.

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F: