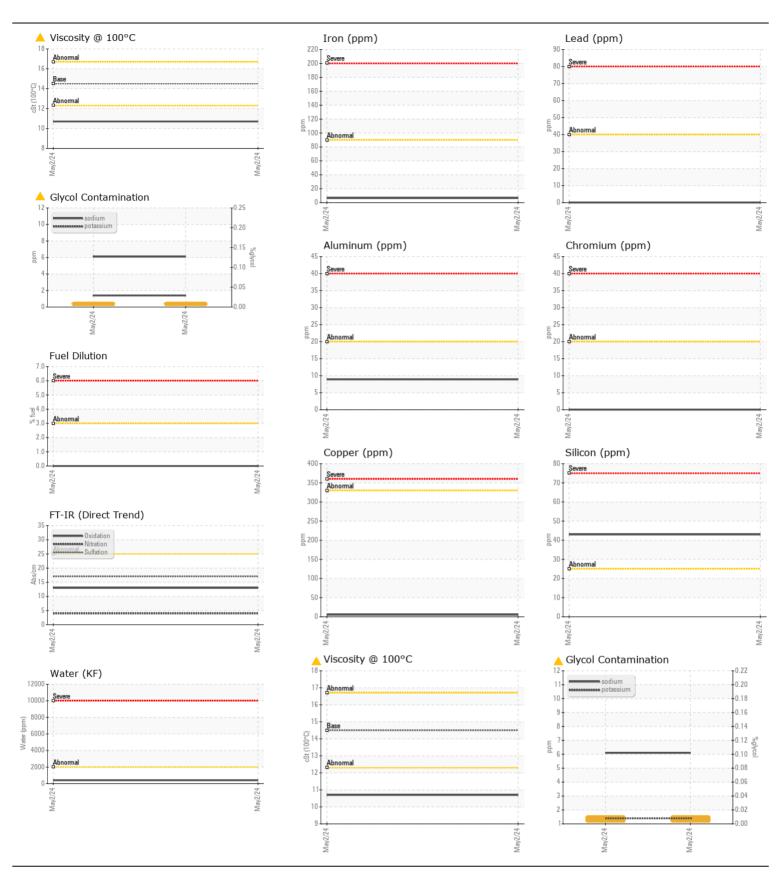
**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL MARGINAL ABNORMAL** 

## BEANFIELD TECHNOLOGIES [154968]

J220155854

VALVOLINE PREMIUM BLUE EXTREME 5W40							
DECOLUTED ATION	-1						
RECOMMENDATION  We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		CU0022788		
	Sample Date		Client Info		02 May 2024		
	Machine Age	hrs	Client Info		18		
	Oil Age	hrs	Client Info		1		
	Filter Age	hrs	Client Info		1		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185(m)	>90	6		
	Chromium	ppm	ASTM D5185(m)	>20	0		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185(m)	>2	0		
	Titanium	ppm	ASTM D5185(m)	>2	0		
	Silver	ppm	ASTM D5185(m)	>2	0		
	Aluminum	ppm	ASTM D5185(m)		9		
	Lead	ppm	ASTM D5185(m)	>40	0		
	Copper	ppm	ASTM D5185(m)	>330	5		
	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)	>25	43		
Test for glycol is positive. There is a light concentration of glycol present in the oil. Tests indicate that there is no fuel present in the oil. The water content is negligible.	Potassium	ppm	ASTM D5185(m)	>20	1		
	Fuel	%	ASTM D7593*	>3.0	0.0		
	Water	%	ASTM D6304*	>0.2	0.040		
	ppm Water	ppm	ASTM D6304*	>2000	408		
	Glycol	%	ASTM D7922*		<u> </u>		
	Soot %	%	ASTM D7844*	>6	0.5		
	Nitration	Abs/cm	ASTM D7624*	>20	4.0		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	17.0		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	VLITE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor		Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.2	.2%		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		6		
Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185(m)		74		
	Barium	ppm	ASTM D5185(m)		10		
	Molybdenum	ppm	ASTM D5185(m)		206		
	Manganese	ppm	ASTM D5185(m)		1		
	Magnesium	ppm	ASTM D5185(m)		361		
	Calcium	ppm	ASTM D5185(m)		1216		
	Phosphorus	ppm	ASTM D5185(m)		528		
	Zinc	ppm	ASTM D5185(m)		701		
	Sulfur	ppm	ASTM D5185(m)		1560		
	Oxidation	Abs/.1mm	ASTM D7414*	>25	13.0		
	CAIGGIOIT	7 100, 11111111					





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CUMMINS CANADA ULC - GENERATOR DIVISION : CU0022788

: 02640731 **Tested** 

Received : 10 Jun 2024 : 11 Jun 2024 Diagnosed

: 12 Jun 2024 - Kevin Marson

7175 PACIFIC CIRCLE MISSISSAUGA, ON CA L5T 2A5

Contact: Elisia Johnson

Unique Number : 5789893 Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KF, PercentFuel, Visual) 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.