



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[149901]
 Machine Id
018011
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

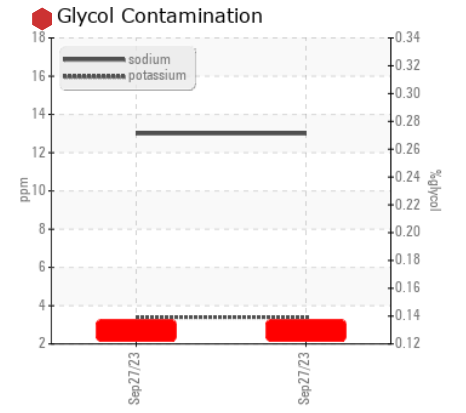
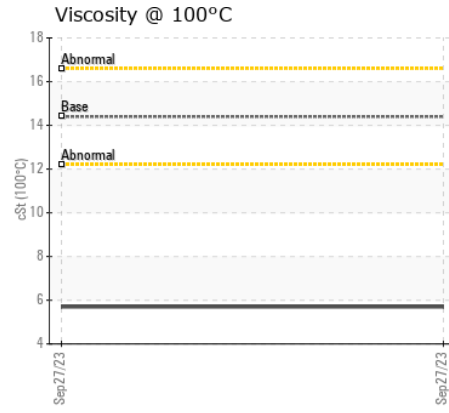
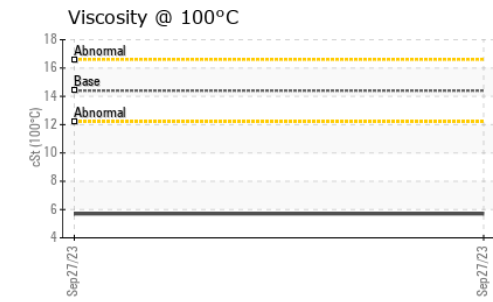
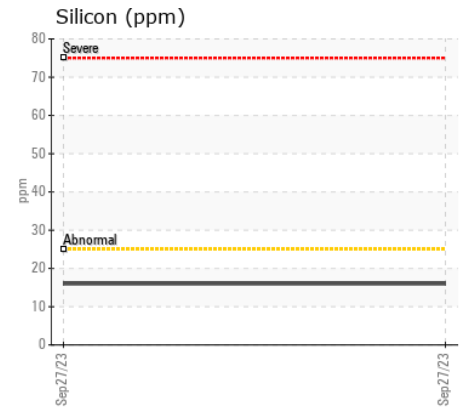
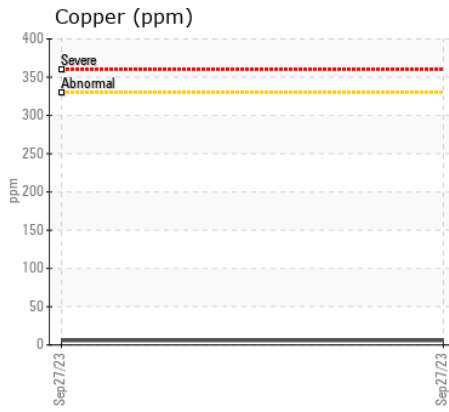
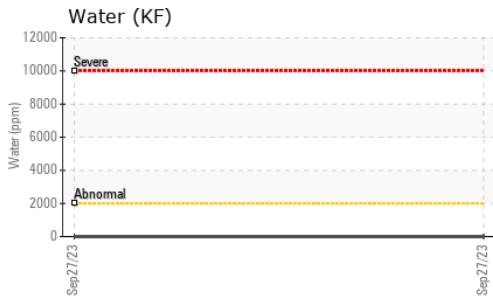
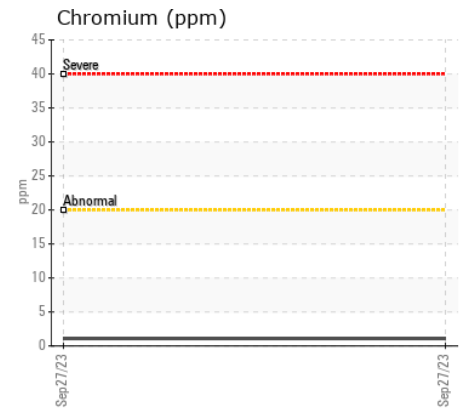
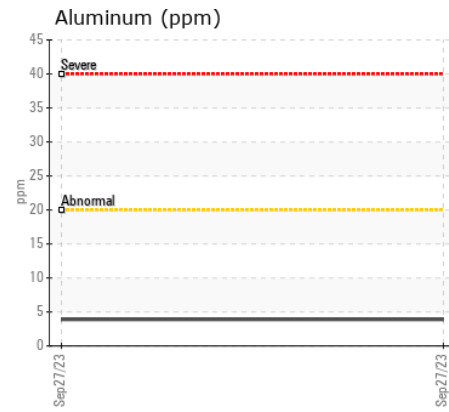
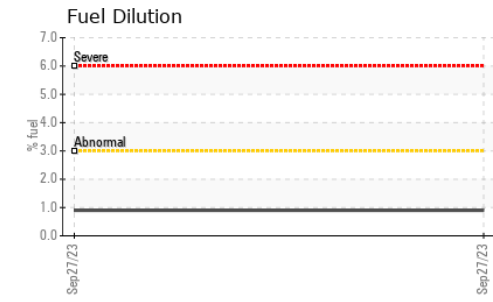
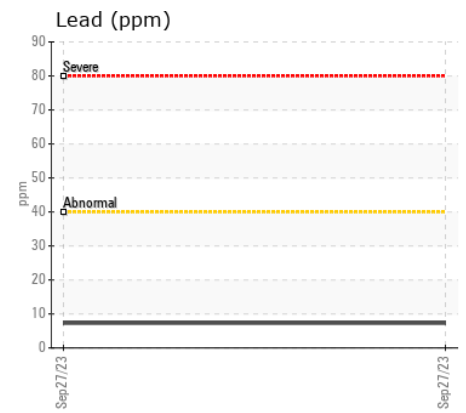
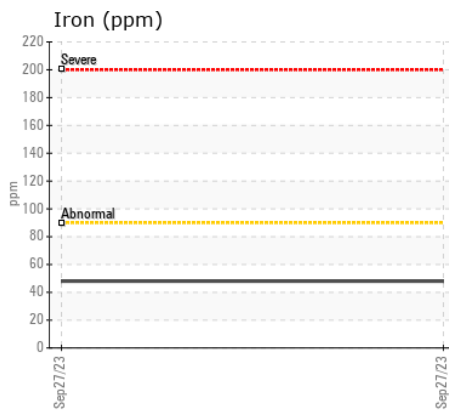
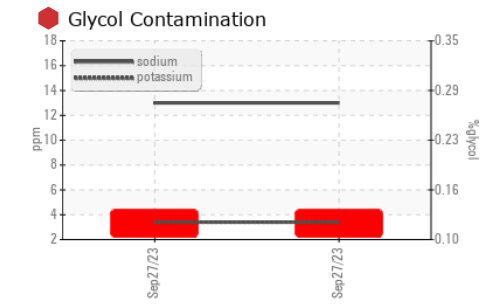
CONTAMINATION

Fuel content negligible. Test for glycol is positive. There is a high concentration of glycol present in the oil. There is a moderate concentration of water present in the oil.

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CU0022219	---	---
Sample Date		Client Info		27 Sep 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185(m)	>90	48	---	---
Chromium	ppm	ASTM D5185(m)	>20	1	---	---
Nickel	ppm	ASTM D5185(m)	>2	<1	---	---
Titanium	ppm	ASTM D5185(m)	>2	0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	4	---	---
Lead	ppm	ASTM D5185(m)	>40	7	---	---
Copper	ppm	ASTM D5185(m)	>330	6	---	---
Tin	ppm	ASTM D5185(m)	>15	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Silicon	ppm	ASTM D5185(m)	>25	16	---	---
Potassium	ppm	ASTM D5185(m)	>20	3	---	---
Fuel	%	ASTM D7593*	>3.0	0.9	---	---
Water	%	ASTM D6304*	>0.2	NEG	---	---
Glycol	%	ASTM D7922*		0.137	---	---
Soot %	%	ASTM D7844*	>6	2.7	---	---
Nitration	Abs/cm	ASTM D7624*	>20	101.8	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.3	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	1%	---	---
Sodium	ppm	ASTM D5185(m)	>158	13	---	---
Boron	ppm	ASTM D5185(m)	250	34	---	---
Barium	ppm	ASTM D5185(m)	10	1	---	---
Molybdenum	ppm	ASTM D5185(m)	100	37	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)	450	67	---	---
Calcium	ppm	ASTM D5185(m)	3000	3082	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	1197	---	---
Zinc	ppm	ASTM D5185(m)	1350	1493	---	---
Sulfur	ppm	ASTM D5185(m)	4250	3720	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	163.0	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	5.7	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CUMMINS CANADA ULC - GENERATOR DIVISION**
Sample No. : CU0022219 **Received** : 28 Sep 2023 **7175 PACIFIC CIRCLE**
Lab Number : 02585801 **Tested** : 02 Oct 2023 **MISSISSAUGA, ON**
Unique Number : 5646866 **Diagnosed** : 02 Oct 2023 - Kevin Marson **CA L5T 2A5**
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KF, PercentFuel, Visual) **Contact: Elisia Johnson**
elisia.johnson@cummins.com

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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