

[208767] Machine Id 0041825 Component Diesel Engine Fluid SAE 15W40 (--- LTR)

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

Metal levels are typical for a new component breaking in.

CONTAMINATION

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	00101	Client Info	LITTIUAUT	CU0023373		
Sample Date		Client Info		18 Apr 2024		
Machine Age	hrs	Client Info		429		
Ũ	hrs	Client Info		429 0		
Oil Age		Client Info		-		
Filter Age	hrs	Client Info		0		
Oil Changed				N/A		
Filter Changed		Client Info				
Sample Status				SEVERE		
Iron	ppm	ASTM D5185(m)	>90	69		
Chromium	ppm	ASTM D5185(m)	>4	2		
Nickel	ppm	ASTM D5185(m)	>4	1		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>15	2		
Lead	ppm	ASTM D5185(m)	>50	5		
Copper	ppm	ASTM D5185(m)	>55	6		
Tin	ppm	ASTM D5185(m)	>4	2		
Vanadium	ppm	ASTM D5185(m)	~7	0		
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
	Scalai	visuai				
Silicon	ppm	ASTM D5185(m)	>15	18		
Potassium	ppm	ASTM D5185(m)	>20	1 7		
Fuel		WC Method	>3.0	<1.0		
Water	%	ASTM D6304*	>0.2	NEG		
Glycol	%	ASTM D7922*		▲ >.70		
Soot %	%	ASTM D7844*	>6	1.6		
Nitration	Abs/cm	ASTM D7624*	>20	19.3		
Sulfation	Abs/.1mm	ASTM D7415*	>30	11.9		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	VLITE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.2	. 5%		
Sodium	ppm	ASTM D5185(m)	>57	6 542		
Boron	ppm	ASTM D5185(m)		57		
Barium	ppm	ASTM D5185(m)		2		
Molybdenum	ppm	ASTM D5185(m)		46		
Manganese	ppm	ASTM D5185(m)		2		
Magnesium	ppm	ASTM D5185(m)		364		
Calcium	ppm	ASTM D5185(m)		1167		
Phosphorus	ppm	ASTM D5185(m)		518		
Zinc	ppm	ASTM D5185(m)		734		
Sulfur	ppm	ASTM D5185(m)		1635		
Oxidation	Abs/.1mm	ASTM D7414*	>25	36.8		
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	35.8		

WEAR

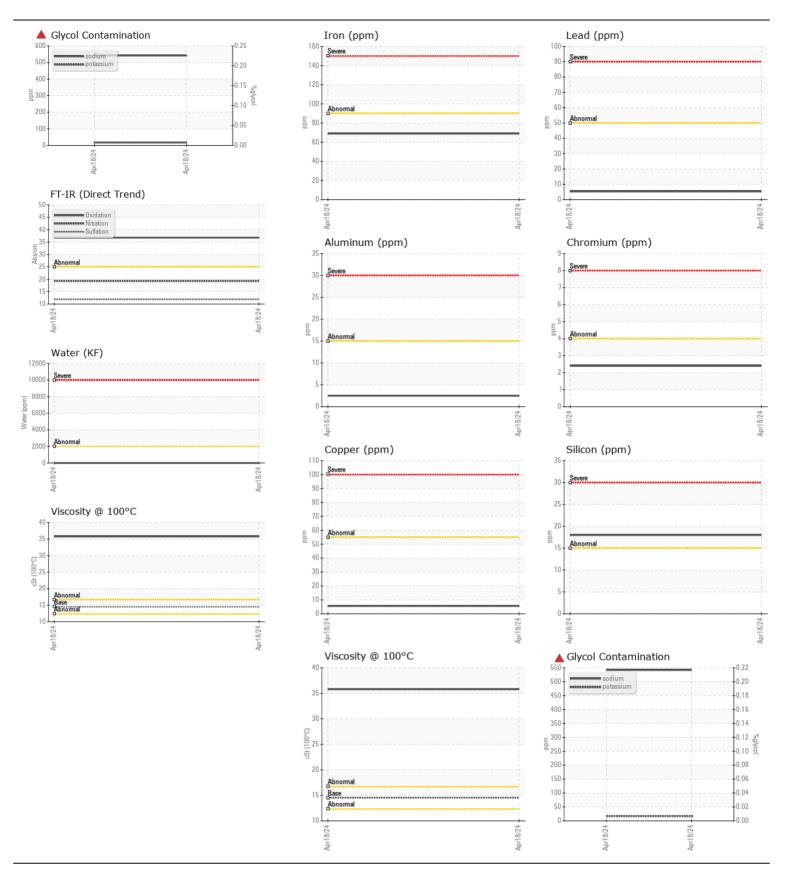
CONTAMINATION

FLUID CONDITION

NORMAL

SEVERE

ATTENTION



CUMMINS CANADA ULC Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. 7200 TRANS CANADA HWY. : CU0023373 Received : 19 Apr 2024 ĺ. Lab Number : 02630129 POINTE CLAIRE, QC Tested ISO 17025:2017 : 19 Apr 2024 Accredited Unique Number : 5763261 Diagnosed : 22 Apr 2024 - Kevin Marson Laboratory Test Package : MOB 1 (Additional Tests: Glycol, KF, Visual) Contact: Francois Brault Francois.Brault@cummins.com To discuss this sample report, contact Customer Service at 1-800-268-2131. T: (514)695-8410 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (514)695-5246 Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: Francois Brault - DIEPOI Page 2 of 2

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