WEAR CONTAMINATION FLUID CONDITION

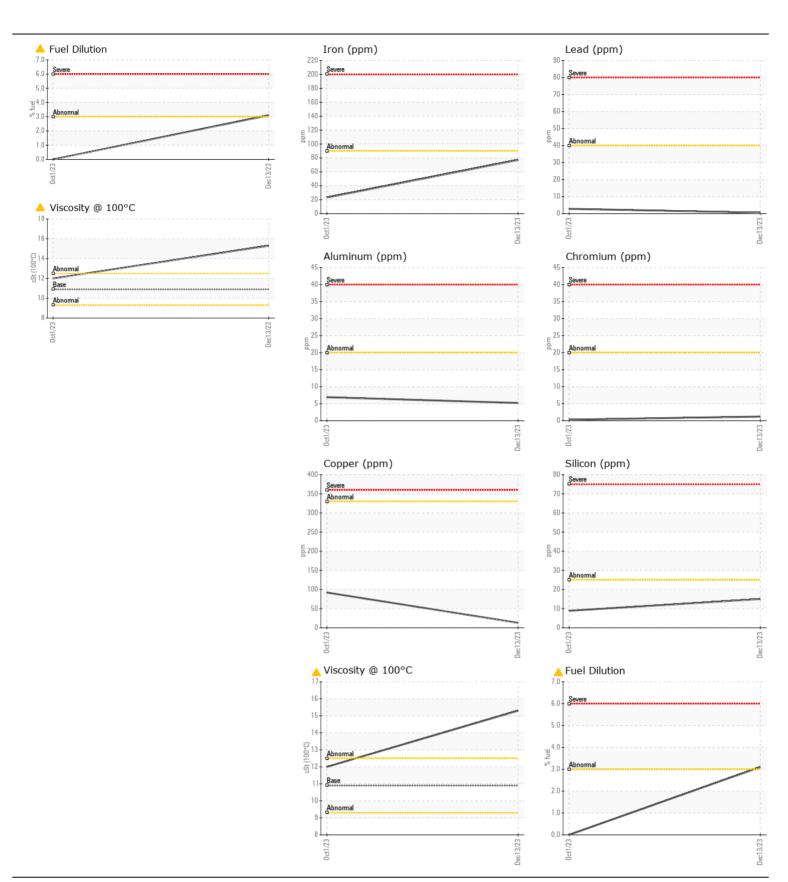
NORMAL ABNORMAL ABNORMAL

Machine Id

9851

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number		Client Info		WC0853128	WC0853215	-
	Sample Date		Client Info		13 Dec 2023	01 Oct 2023	
	Machine Age	kms	Client Info		17624	12434	
	Oil Age	kms	Client Info		0	0	
	Filter Age	kms	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Changed	
	Sample Status				ABNORMAL	NORMAL	
WEAR	lron		ACTM DE10E(m)	. 00		23	
Metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185(m)		77		
	Chromium Nickel	ppm	ASTM D5185(m) ASTM D5185(m)		2	<1 <1	
	Titanium	ppm	ASTM D5185(III) ASTM D5185(m)		0	0	
	Silver	ppm	ASTM D5185(m)		<1	<1	
	Aluminum	ppm	ASTM D5185(m)		5	7	
	Lead	ppm	ASTM D5185(m)		<1	3	
	Copper	ppm	ASTM D5185(m)		13	92	
	Tin	ppm	ASTM D5185(m)		1	<1	
	Vanadium	ppm	ASTM D5185(m)		0	0	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	15	9	
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185(m)	>20	7	21	
	Fuel	%	ASTM D7593*	>3.0	<u>▲</u> 3.1	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	ASTM D7844*		0.9	1	
	Nitration	Abs/cm	ASTM D7624*	>20	14.5	7.7	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	38.6	20.8	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		9	4	
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185(m)	250	20	63	
	Barium	ppm	ASTM D5185(m)	10	5	<1	
	Molybdenum	ppm	ASTM D5185(m)	100	36	25	
	Manganese	ppm	ASTM D5185(m)		6	1	
	Magnesium	ppm	ASTM D5185(m)	450	700	569	
	Calcium	ppm	ASTM D5185(m)	3000	1046	1445	
	Phosphorus	ppm	ASTM D5185(m)	1150	636	758	
	Zinc	ppm	ASTM D5185(m)		723	902	
	Sulfur	ppm	ASTM D5185(m)		1813	2352	
	Oxidation	Abs/.1mm	ASTM D7414*		27.8	14.1	
	Visc @ 100°C			10.9			





CALA ISO 17025:2017 Accredited Laboratory

Report Id: RUSMIS [WCAMIS] 02607428 (Generated: 01/11/2024 08:54:05) Rev: 1

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 02607428

: WC0853128 : 5708514

Recieved Diagnosed

: 09 Jan 2024 : 11 Jan 2024

Diagnostician : Wes Davis Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel)

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.

Rush Truck Centres 7450 Torbram Rd. Mississauga, ON CA L4T 1G9 Contact: Ideal Lease ideal.lease@rushtruckcentres.ca

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