



OIL ANALYSIS REPORT

Sample Rating Trend

FUEL



Machine Id

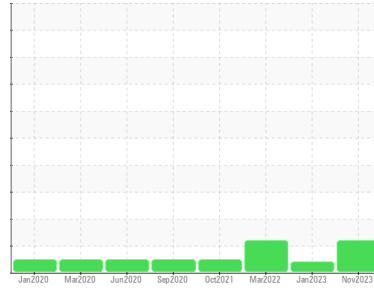
9596

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 15W40 (--- GAL)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	WC0853221	WC0702988	WC0654420	
Sample Date	Client Info	09 Nov 2023	14 Jan 2023	26 Mar 2022	
Machine Age	kms	Client Info	279525	216910	157629
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info	Not Changed	Changed	Not Changed	
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	NEG	NEG
Glycol	WC Method	NEG	0.0	NEG

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >90	13	34	37
Chromium	ppm	ASTM D5185(m) >20	<1	<1	1
Nickel	ppm	ASTM D5185(m) >2	<1	<1	<1
Titanium	ppm	ASTM D5185(m) >2	0	<1	0
Silver	ppm	ASTM D5185(m) >2	0	0	<1
Aluminum	ppm	ASTM D5185(m) >20	7	19	6
Lead	ppm	ASTM D5185(m) >40	<1	0	<1
Copper	ppm	ASTM D5185(m) >330	1	3	6
Tin	ppm	ASTM D5185(m) >15	0	0	<1
Antimony	ppm	ASTM D5185(m)	0	<1	0
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m) 250	55	57	30
Barium	ppm	ASTM D5185(m) 10	0	0	0
Molybdenum	ppm	ASTM D5185(m) 100	5	4	5
Manganese	ppm	ASTM D5185(m)	0	<1	<1
Magnesium	ppm	ASTM D5185(m) 450	743	698	722
Calcium	ppm	ASTM D5185(m) 3000	1306	1422	1309
Phosphorus	ppm	ASTM D5185(m) 1150	727	707	681
Zinc	ppm	ASTM D5185(m) 1350	792	774	771
Sulfur	ppm	ASTM D5185(m) 4250	2688	2590	2507
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >25	5	10	8
Sodium	ppm	ASTM D5185(m) >158	2	4	3
Potassium	ppm	ASTM D5185(m) >20	3	10	3
Fuel	%	ASTM D7593* >3.0	▲ 1.5	1.8	▲ 2.1

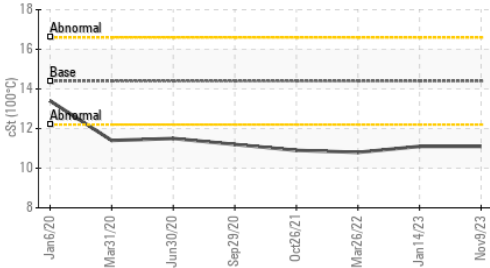
INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844* >6	0.3	0.1	0.7
Nitration	Abs/cm	ASTM D7624* >20	8.9	10.5	12.2
Sulfation	Abs/.1mm	ASTM D7415* >30	19.2	21.6	25.7

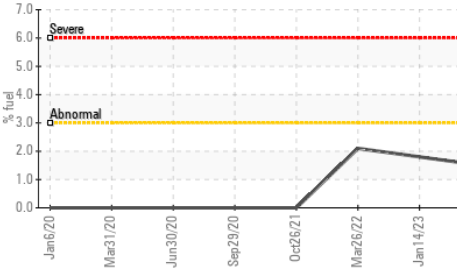


OIL ANALYSIS REPORT

▲ Viscosity @ 100°C



▲ Fuel Dilution



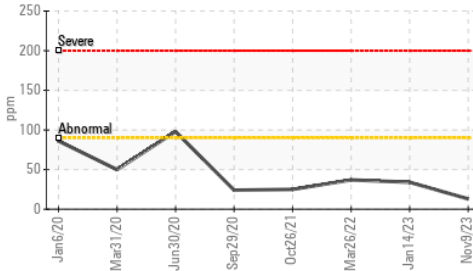
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs.:1mm ASTM D7414*	>25	13.9	16.0	19.6

VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar Visual*		NEG	NEG	NEG

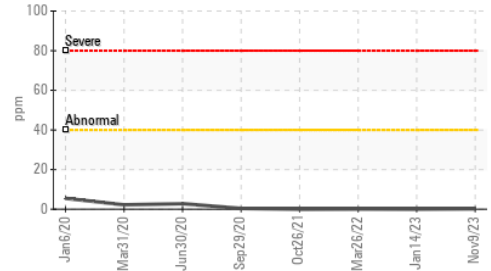
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D7279(m)	14.4	▲ 11.1	▲ 11.1	▲ 10.8

GRAPHS

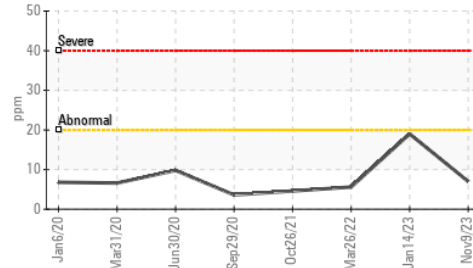
Iron (ppm)



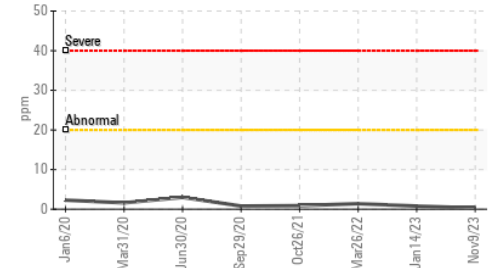
Lead (ppm)



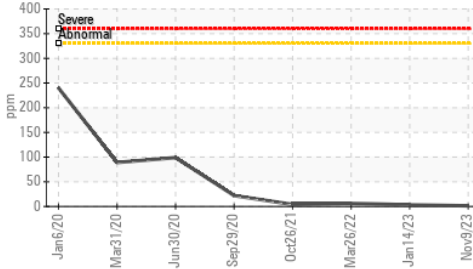
Aluminum (ppm)



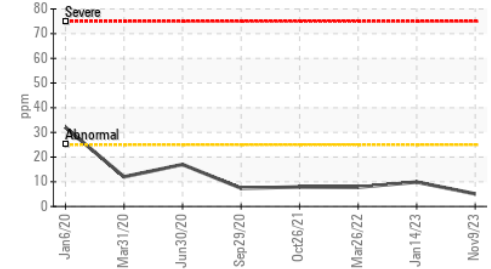
Chromium (ppm)



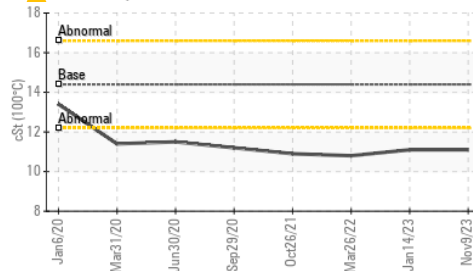
Copper (ppm)



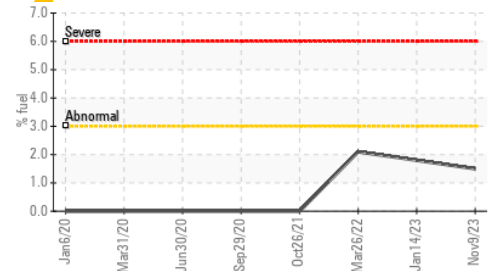
Silicon (ppm)



▲ Viscosity @ 100°C



▲ Fuel Dilution



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853221 **Received** : 19 Jan 2024
Lab Number : 02609866 **Diagnosed** : 22 Jan 2024
Unique Number : 5710952 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel)

Rush Truck Centres
 7450 Torbram Rd.
 Mississauga, ON
 CA L4T 1G9
 Contact: Serdar Okur
 sokur@rushtruckcentres.ca
 T: (905)671-7600
 F:

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.