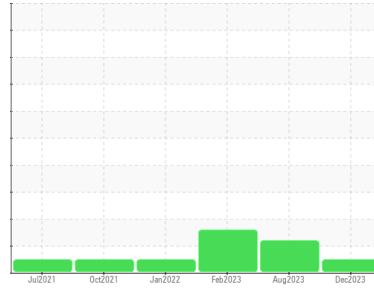




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
[42510876]
 Machine Id
1421M

Component
Diesel Engine
 Fluid

DIESEL ENGINE OIL SAE 10W30 (--- 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

Fuel content negligible. There is no indication of any contamination 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		WC0853231	WC0702958	WC0737487
Sample Date	Client Info		09 Dec 2023	06 Aug 2023	14 Feb 2023
Machine Age	kms	Client Info	241479	228433	203233
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		Not Changed	Not Changd	Not Changed
Sample Status			NORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>90	2	22	69
Chromium	ppm	ASTM D5185(m)	>20	0	2	4
Nickel	ppm	ASTM D5185(m)	>2	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	1	4	8
Lead	ppm	ASTM D5185(m)	>40	0	3	6
Copper	ppm	ASTM D5185(m)	>330	<1	1	5
Tin	ppm	ASTM D5185(m)	>15	0	<1	2
Antimony	ppm	ASTM D5185(m)		0	0	<1
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	87	37	22
Barium	ppm	ASTM D5185(m)	10	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	100	2	6	55
Manganese	ppm	ASTM D5185(m)		0	<1	1
Magnesium	ppm	ASTM D5185(m)	450	691	676	409
Calcium	ppm	ASTM D5185(m)	3000	1240	1346	1754
Phosphorus	ppm	ASTM D5185(m)	1150	642	734	1031
Zinc	ppm	ASTM D5185(m)	1350	723	787	1135
Sulfur	ppm	ASTM D5185(m)	4250	2390	2480	2571
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

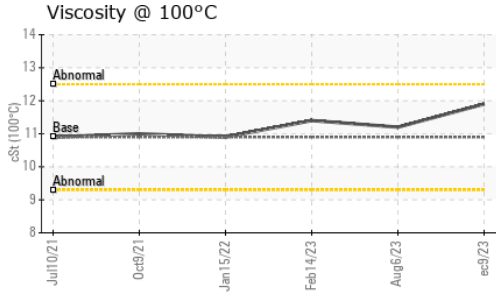
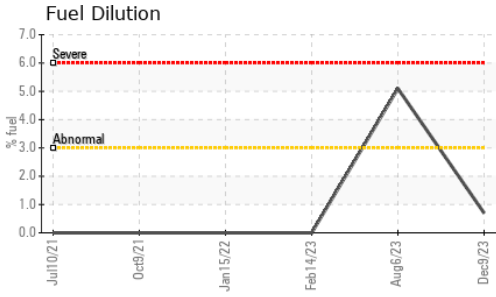
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	5	4	6
Sodium	ppm	ASTM D5185(m)		2	3	2
Potassium	ppm	ASTM D5185(m)	>20	2	4	3
Fuel	%	ASTM D7593*	>3.0	0.7	▲ 5.1	<1.0

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	0	0.2	0.6
Nitration	Abs/cm	ASTM D7624*	>20	5.9	11.8	15.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.7	24.5	▲ 34.9



OIL ANALYSIS REPORT

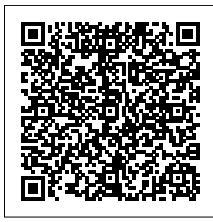
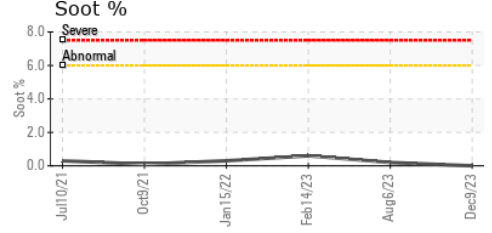
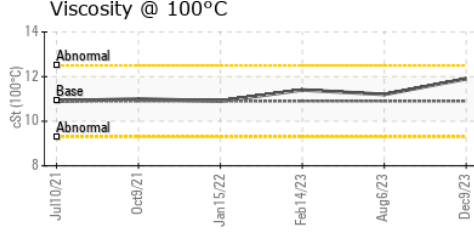
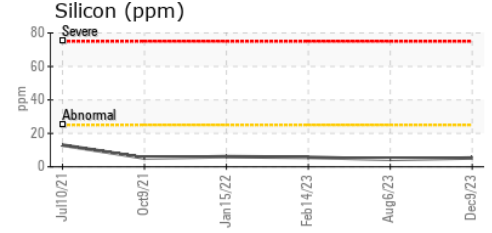
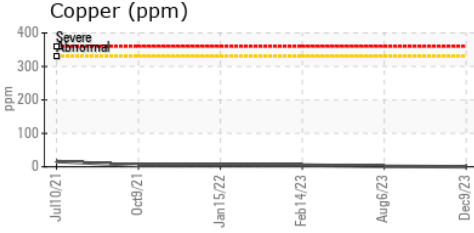
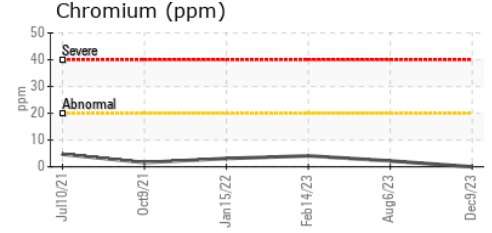
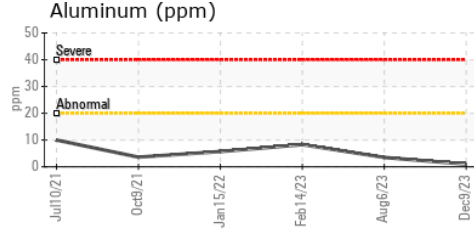
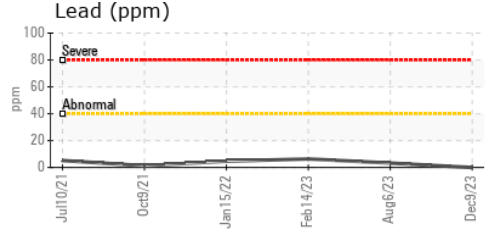
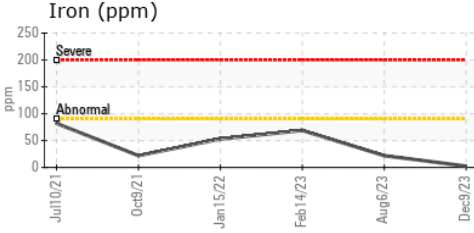


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	11.6	21.8	▲ 35.8

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
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	NORML	NORML
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)	10.9	11.9	▲ 11.2	11.4

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853231 **Received** : 12 Dec 2023
Lab Number : 02602530 **Diagnosed** : 13 Dec 2023
Unique Number : 5695615 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: PercentFuel, Visual)

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 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.