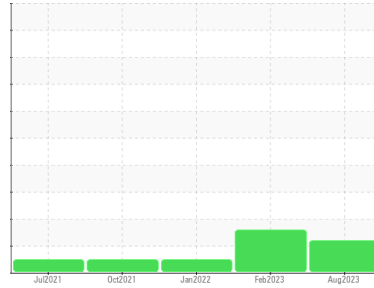




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
1421M

Component
Diesel Engine

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

DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0702958	WC0737487	WC0654594
Sample Date	Client Info		06 Aug 2023	14 Feb 2023	15 Jan 2022
Machine Age	kms	Client Info	228433	203233	138140
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			ABNORMAL	ABNORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >90	22	69	53
Chromium	ppm	ASTM D5185(m) >20	2	4	3
Nickel	ppm	ASTM D5185(m) >2	0	<1	<1
Titanium	ppm	ASTM D5185(m) >2	<1	<1	0
Silver	ppm	ASTM D5185(m) >2	<1	0	<1
Aluminum	ppm	ASTM D5185(m) >20	4	8	6
Lead	ppm	ASTM D5185(m) >40	3	6	5
Copper	ppm	ASTM D5185(m) >330	1	5	6
Tin	ppm	ASTM D5185(m) >15	<1	2	2
Antimony	ppm	ASTM D5185(m)	0	<1	<1
Vanadium	ppm	ASTM D5185(m)	0	0	<1
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	37	22	26
Barium	ppm	ASTM D5185(m) 10	0	0	0
Molybdenum	ppm	ASTM D5185(m) 100	6	55	4
Manganese	ppm	ASTM D5185(m)	<1	1	1
Magnesium	ppm	ASTM D5185(m) 450	676	409	741
Calcium	ppm	ASTM D5185(m) 3000	1346	1754	1328
Phosphorus	ppm	ASTM D5185(m) 1150	734	1031	733
Zinc	ppm	ASTM D5185(m) 1350	787	1135	789
Sulfur	ppm	ASTM D5185(m) 4250	2480	2571	2494
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	4	6	6
Sodium	ppm	ASTM D5185(m) >158	3	2	3
Potassium	ppm	ASTM D5185(m) >20	4	3	10
Fuel	%	ASTM D7593* >3.0	▲ 5.1	<1.0	<1.0

INFRA-RED

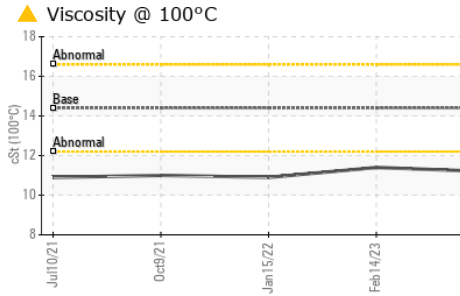
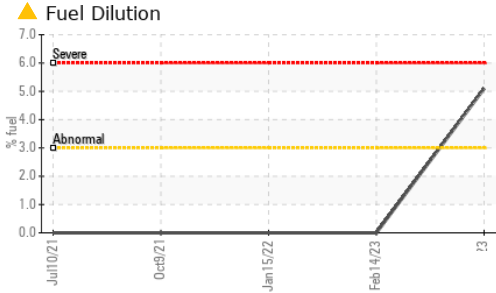
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >6	0.2	0.6	0.3
Nitration	Abs/cm	ASTM D7624* >20	11.8	15.7	12.0
Sulfation	Abs/.1mm	ASTM D7415* >30	24.5	▲ 34.9	27.3

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	21.8	▲ 35.8	24.6



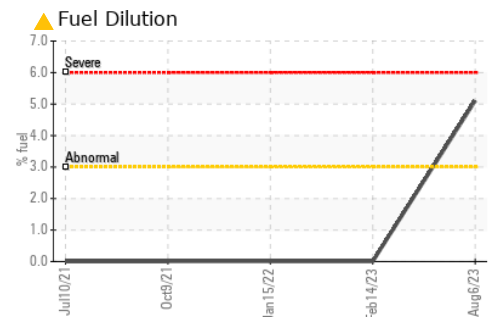
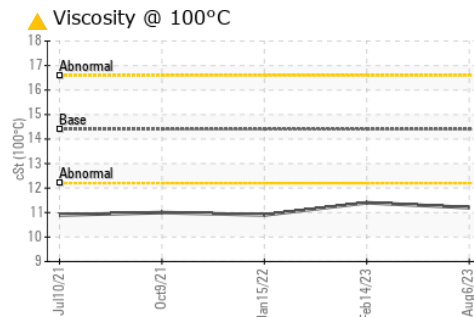
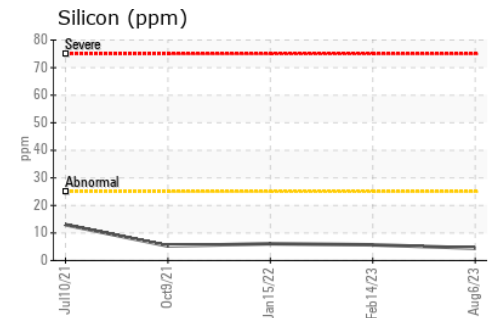
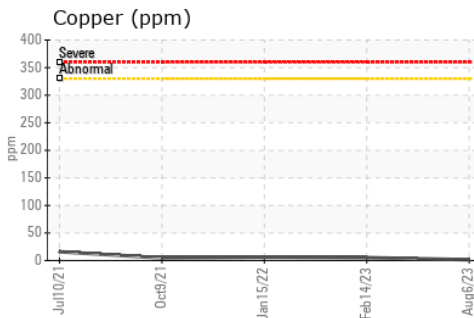
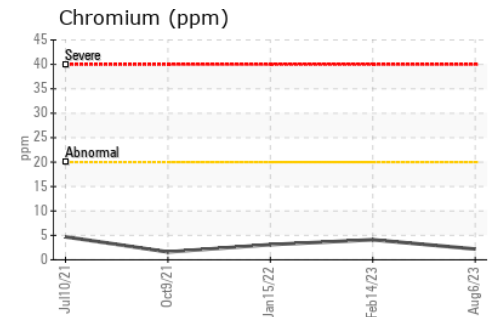
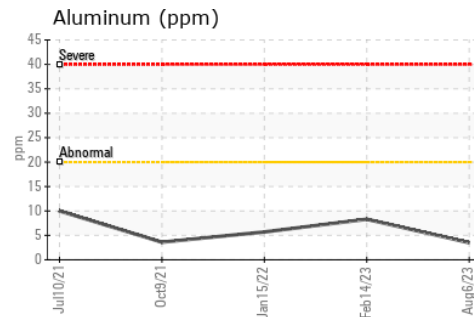
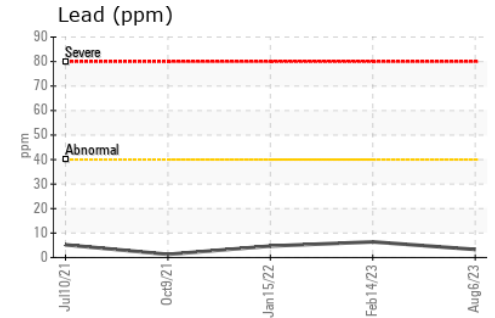
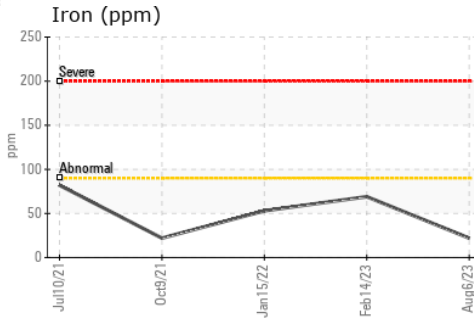
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	▲ 11.2	11.4

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0702958 **Received** : 28 Aug 2023
Lab Number : 02578591 **Diagnosed** : 29 Aug 2023
Unique Number : 5631651 **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.

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