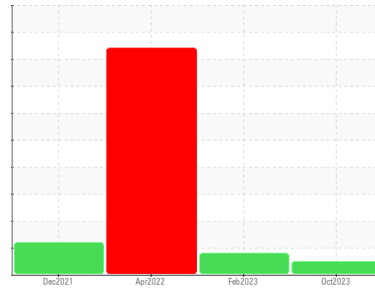




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
292022

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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			WC0853507	WC0702904	WC0654686
Sample Date	Client Info			18 Oct 2023	12 Feb 2023	09 Apr 2022
Machine Age	kms	Client Info		382073	346945	280451
Oil Age	kms	Client Info		0	0	0
Oil Changed	Client Info			Changed	Not Changd	Changed
Sample Status				NORMAL	MARGINAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>3.0		<1.0	<1.0	<1.0
Glycol	WC Method			NEG	0.0	🔴 >.70

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	22	73	84
Chromium	ppm	ASTM D5185(m)	>20	<1	2	3
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	4	▲ 20	11
Lead	ppm	ASTM D5185(m)	>40	0	<1	6
Copper	ppm	ASTM D5185(m)	>330	<1	2	4
Tin	ppm	ASTM D5185(m)	>15	0	<1	1
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	<1	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	37	32	40
Barium	ppm	ASTM D5185(m)	10	<1	0	2
Molybdenum	ppm	ASTM D5185(m)	100	<1	10	44
Manganese	ppm	ASTM D5185(m)		0	1	2
Magnesium	ppm	ASTM D5185(m)	450	736	811	377
Calcium	ppm	ASTM D5185(m)	3000	1378	1603	1826
Phosphorus	ppm	ASTM D5185(m)	1150	682	824	828
Zinc	ppm	ASTM D5185(m)	1350	779	887	1045
Sulfur	ppm	ASTM D5185(m)	4250	2441	2597	2708
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

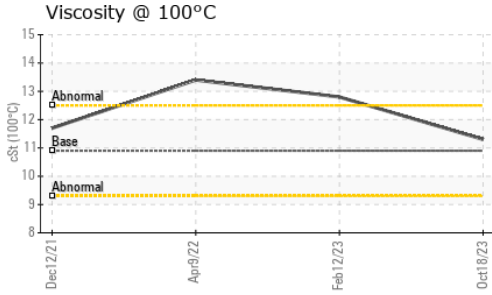
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	9	13
Sodium	ppm	ASTM D5185(m)		3	4	▲ 68
Potassium	ppm	ASTM D5185(m)	>20	3	8	▲ 163

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.2	0.8	1.2
Nitration	Abs/cm	ASTM D7624*	>20	11.4	13.3	101.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.6	30.0	34.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.0	26.7	118.9



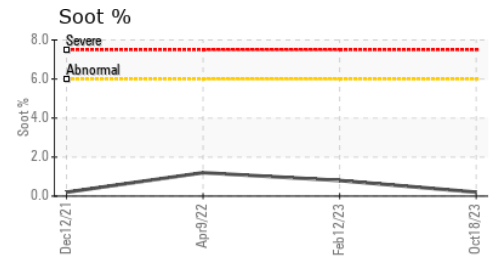
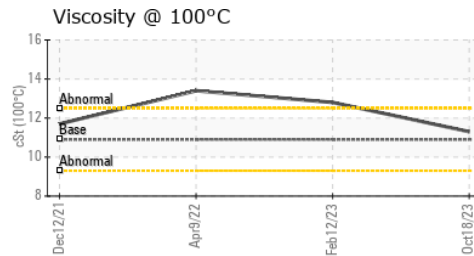
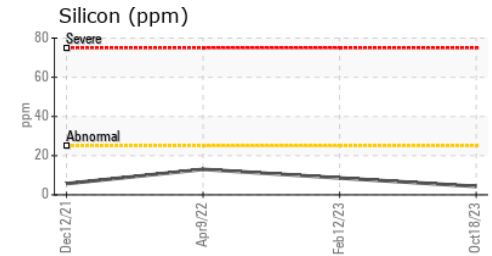
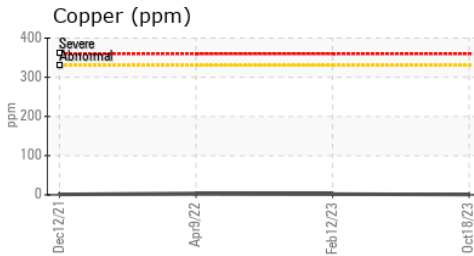
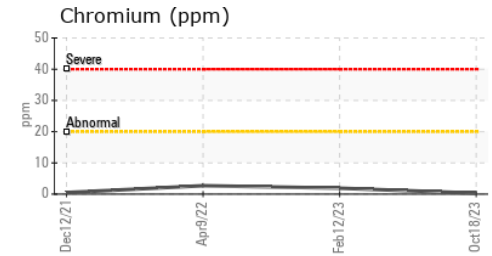
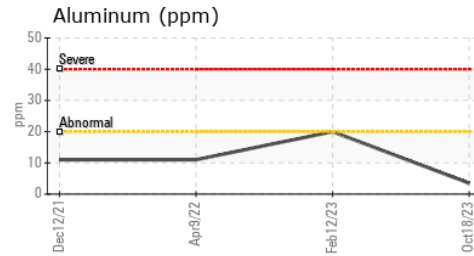
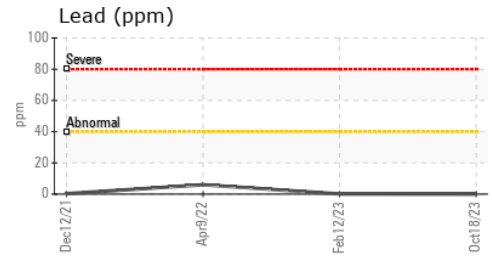
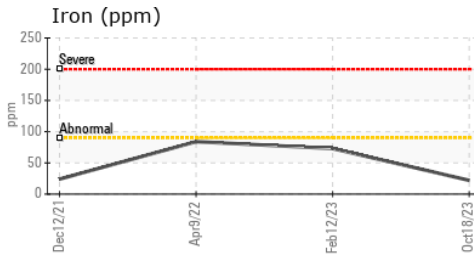
OIL ANALYSIS REPORT



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	VLITE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	▲ 1%
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	11.3	12.8	13.4

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853507 **Received** : 25 Oct 2023
Lab Number : 02591588 **Diagnosed** : 25 Oct 2023
Unique Number : 5668667 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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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.