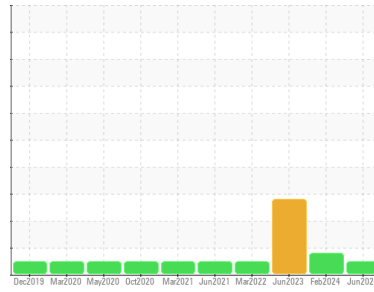




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

9370

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			WC0924244	WC0853138	WC0796330
Sample Date	Client Info			21 Jun 2024	09 Feb 2024	25 Jun 2023
Machine Age	kms	Client Info		627624	608213	570401
Oil Age	kms	Client Info		0	0	0
Oil Changed	Client Info			Changed	Not Changd	Not Changd
Sample Status				NORMAL	MARGINAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	▲ 2.6	▲ 8.7	
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)	>165	87	53	25
Chromium	ppm	ASTM D5185(m)	>5	4	1	1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	14	2
Lead	ppm	ASTM D5185(m)	>150	11	<1	<1
Copper	ppm	ASTM D5185(m)	>90	17	1	2
Tin	ppm	ASTM D5185(m)	>5	<1	0	0
Antimony	ppm	ASTM D5185(m)		0	0	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

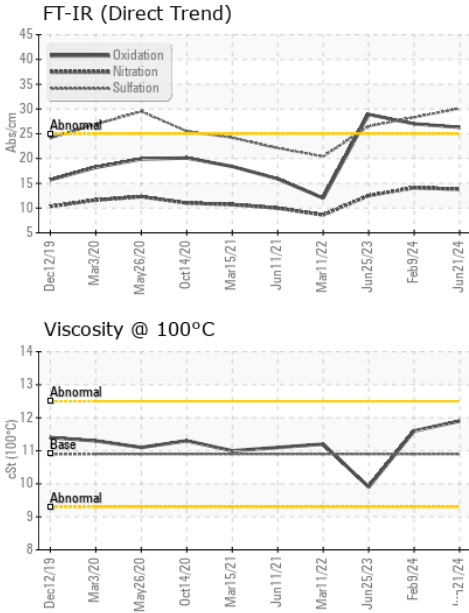
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	20	25	40
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	2	1	5
Manganese	ppm	ASTM D5185(m)		1	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	760	758	648
Calcium	ppm	ASTM D5185(m)	3000	1597	1394	1217
Phosphorus	ppm	ASTM D5185(m)	1150	752	724	675
Zinc	ppm	ASTM D5185(m)	1350	902	810	727
Sulfur	ppm	ASTM D5185(m)	4250	2612	2636	2271
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>35	6	6	5
Sodium	ppm	ASTM D5185(m)		4	3	3
Potassium	ppm	ASTM D5185(m)	>20	4	16	4

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>7.5	0.9	0.6	0.2
Nitration	Abs/cm	ASTM D7624*	>20	13.8	14.1	12.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	30.1	28.3	26.5



OIL ANALYSIS REPORT

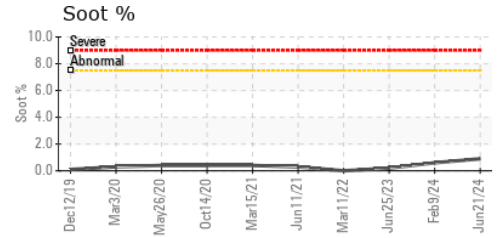
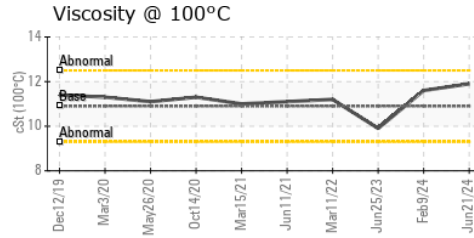
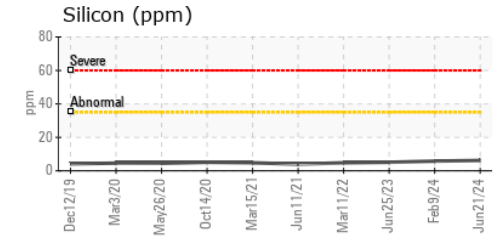
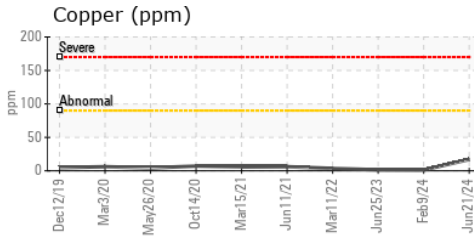
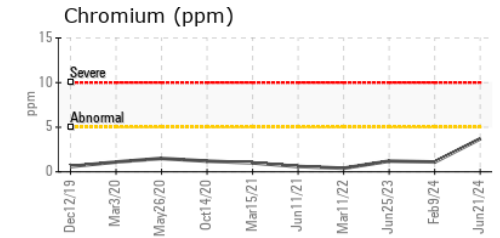
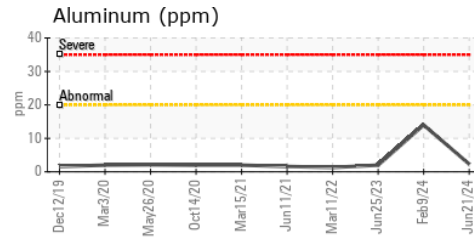
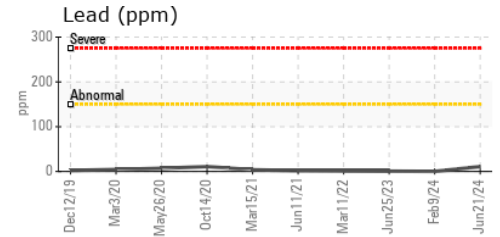
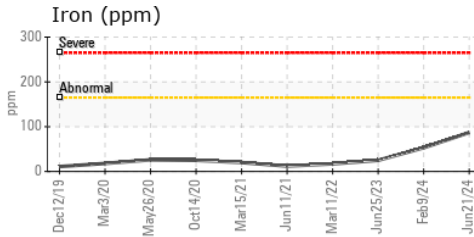


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	26.3	27.0	28.9

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	11.6	▲ 9.9

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0924244 **Received** : 25 Jun 2024
Lab Number : **02643894** **Tested** : 25 Jun 2024
Unique Number : 5801433 **Diagnosed** : 25 Jun 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Visual)

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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