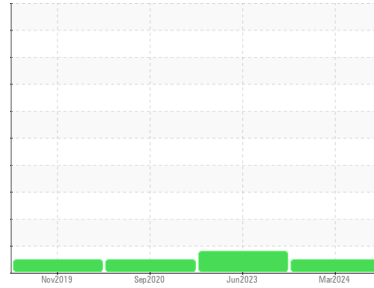




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
[43978150]

Machine Id
9547

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

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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	WC0924131	WC0796613	WC0420566	
Sample Date	Client Info	31 Mar 2024	17 Jun 2023	30 Sep 2020	
Machine Age	kms	Client Info	518606	458595	192814
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info	Not Changed	Changed	Changed	
Sample Status		NORMAL	MARGINAL	NORMAL	

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<1.0	▲ 1.3	<1.0
Water	WC Method >0.2	NEG	NEG	NEG
Glycol	WC Method	NEG	NEG	0.0

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >90	20	83	70
Chromium	ppm ASTM D5185(m) >20	<1	4	4
Nickel	ppm ASTM D5185(m) >2	<1	<1	<1
Titanium	ppm ASTM D5185(m) >2	0	<1	<1
Silver	ppm ASTM D5185(m) >2	0	<1	<1
Aluminum	ppm ASTM D5185(m) >20	13	8	10
Lead	ppm ASTM D5185(m) >40	5	12	13
Copper	ppm ASTM D5185(m) >330	2	2	10
Tin	ppm ASTM D5185(m) >15	<1	1	2
Antimony	ppm ASTM D5185(m)	0	0	<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	30	25	17
Barium	ppm ASTM D5185(m) 10	0	0	<1
Molybdenum	ppm ASTM D5185(m) 100	2	10	6
Manganese	ppm ASTM D5185(m)	0	1	2
Magnesium	ppm ASTM D5185(m) 450	757	780	727
Calcium	ppm ASTM D5185(m) 3000	1368	1530	1582
Phosphorus	ppm ASTM D5185(m) 1150	687	860	765
Zinc	ppm ASTM D5185(m) 1350	791	892	896
Sulfur	ppm ASTM D5185(m) 4250	2416	2566	2564
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

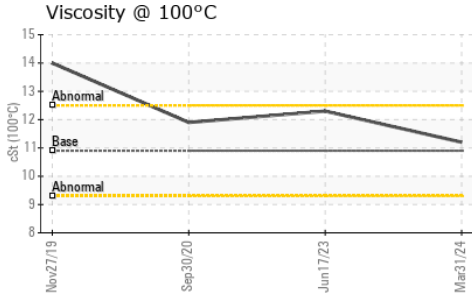
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	6	7	10
Sodium	ppm ASTM D5185(m)	2	3	3
Potassium	ppm ASTM D5185(m) >20	31	8	20

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >6	0.2	0.9	0.5
Nitration	Abs/cm ASTM D7624* >20	9.3	13.9	11.9
Sulfation	Abs./1mm ASTM D7415* >30	22.6	31.1	29.0



OIL ANALYSIS REPORT

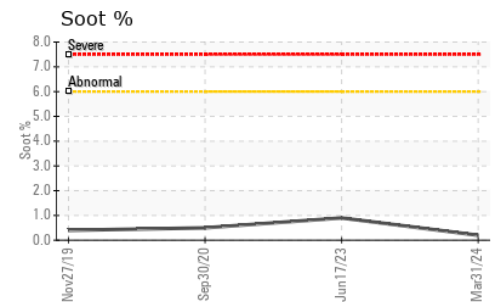
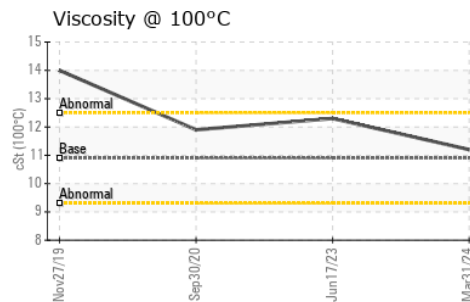
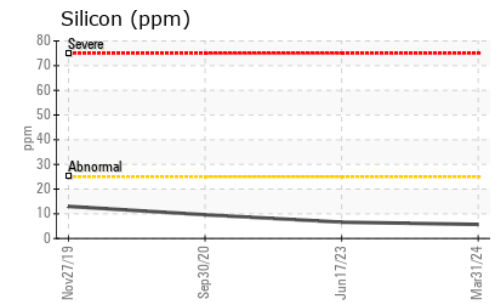
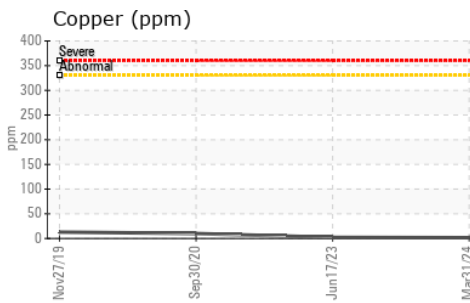
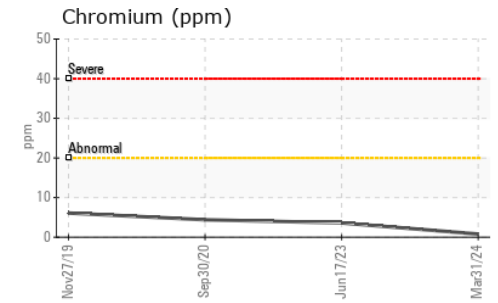
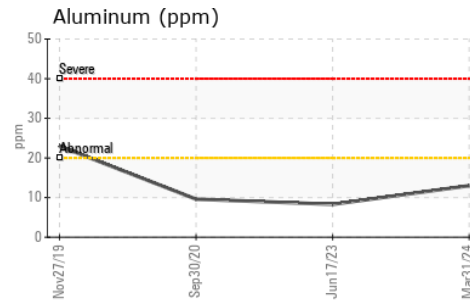
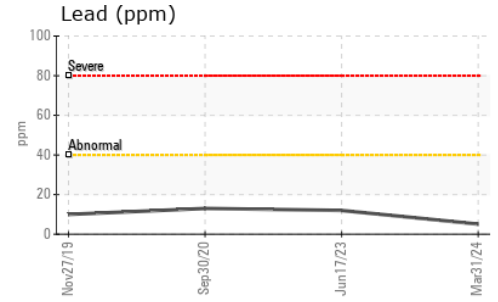
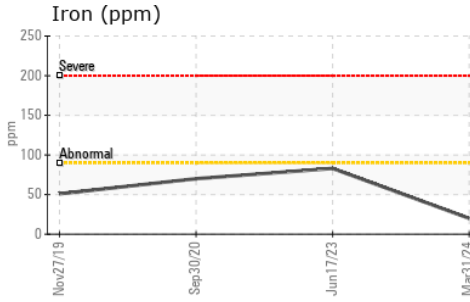


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	17.8	29.2	26.2

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)	10.9	11.2	12.3	11.9

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0924131 **Received** : 02 Apr 2024
Lab Number : **02626029** **Tested** : 02 Apr 2024
Unique Number : 5759161 **Diagnosed** : 02 Apr 2024 - Wes Davis
Test Package : MOB 1

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 Mississauga, ON
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 Contact: Serdar Okur
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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.