



OIL ANALYSIS REPORT

Sample Rating Trend

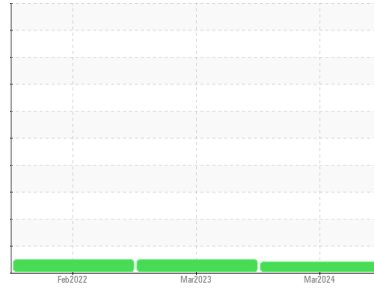
VISCOSITY



Machine Id
333 MARKET DRIVE GEN #5

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 40 (--- GAL)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0910596	WC0795009	WC0647856
Sample Date	Client Info	07 Mar 2024	22 Mar 2023	28 Feb 2022
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	5	6
Chromium	ppm	ASTM D5185(m)	>20	0	0
Nickel	ppm	ASTM D5185(m)	>4	0	0
Titanium	ppm	ASTM D5185(m)		0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	5
Lead	ppm	ASTM D5185(m)	>40	0	<1
Copper	ppm	ASTM D5185(m)	>330	1	3
Tin	ppm	ASTM D5185(m)	>15	0	<1
Antimony	ppm	ASTM D5185(m)		0	0
Vanadium	ppm	ASTM D5185(m)		0	0
Beryllium	ppm	ASTM D5185(m)		0	0
Cadmium	ppm	ASTM D5185(m)		0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	250	154	307
Barium	ppm	ASTM D5185(m)	10	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	46	74
Manganese	ppm	ASTM D5185(m)		0	<1
Magnesium	ppm	ASTM D5185(m)	450	686	469
Calcium	ppm	ASTM D5185(m)	3000	866	1431
Phosphorus	ppm	ASTM D5185(m)	1150	635	1014
Zinc	ppm	ASTM D5185(m)	1350	725	1103
Sulfur	ppm	ASTM D5185(m)	4250	2073	2749
Lithium	ppm	ASTM D5185(m)		<1	<1

CONTAMINANTS

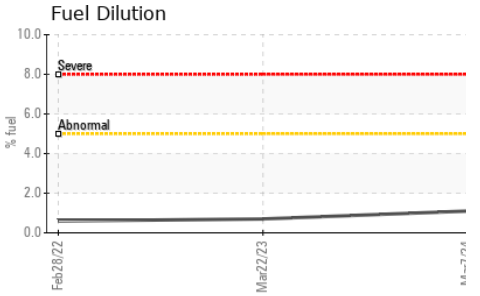
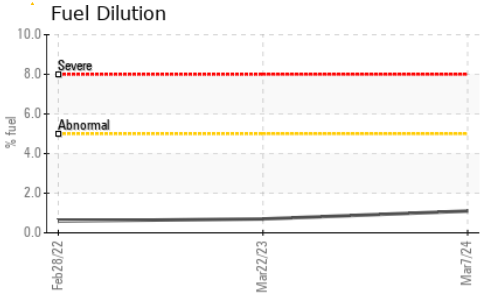
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	10	29
Sodium	ppm	ASTM D5185(m)	>216	<1	3
Potassium	ppm	ASTM D5185(m)	>20	0	0
Fuel	%	ASTM D7593*	>5	1.1	0.7

INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.5	4.9
Sulfation	Abs./1mm	ASTM D7415*	>30	15.6	21.1



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FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	9.1	13.2	7.9

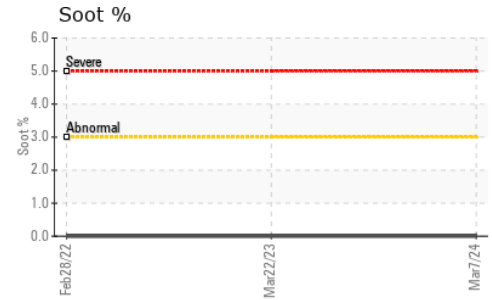
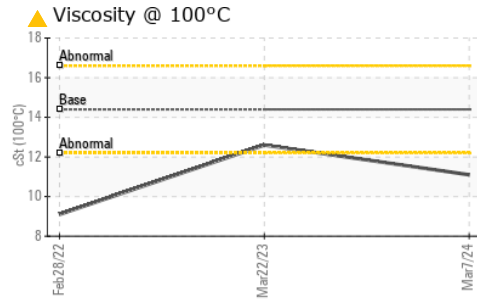
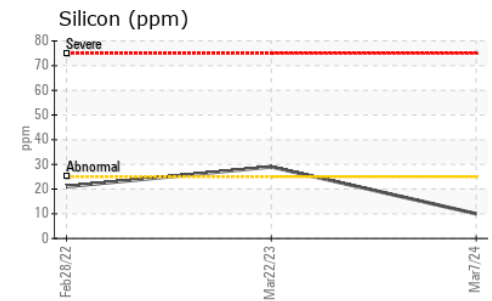
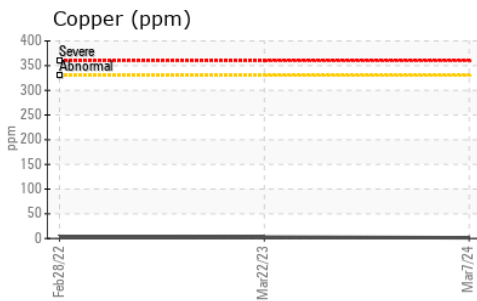
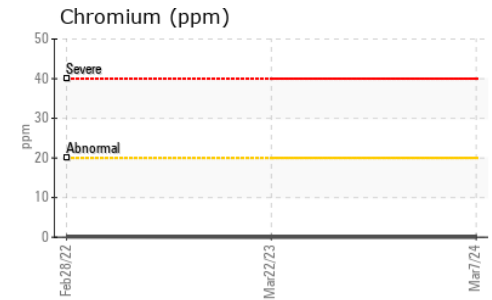
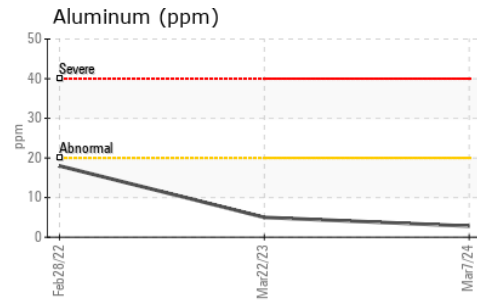
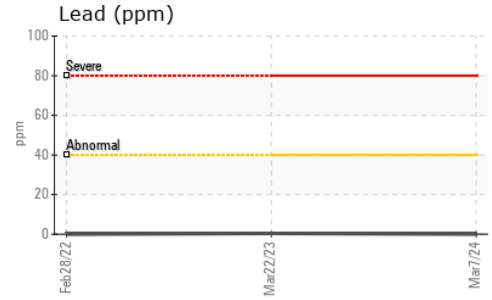
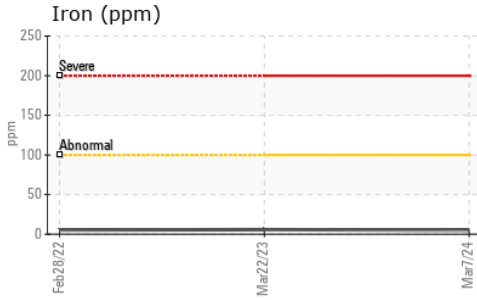
VISUAL

	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)	14.4	▲ 11.1	12.6	9.1

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0910596
Lab Number : **02625620**
Unique Number : 5750739
Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel)

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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.