



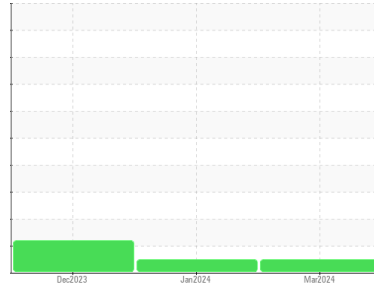
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
CATERPILLAR 740GL HDTR0836
 Component
Diesel Engine
 Fluid
MOBIL 15W40 (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The water content is negligible. 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		WC0904160	WC0886072	WC0879759
Sample Date	Client Info		04 Mar 2024	27 Jan 2024	18 Dec 2023
Machine Age	hrs	Client Info	2229	1556	725
Oil Age	hrs	Client Info	0	0	500
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	▲ 2.4

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	23	29	35
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	3	3	4
Lead	ppm	ASTM D5185(m)	>40	2	7	33
Copper	ppm	ASTM D5185(m)	>330	60	217	982
Tin	ppm	ASTM D5185(m)	>15	<1	1	2
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)		26	26	32
Barium	ppm	ASTM D5185(m)		0	<1	2
Molybdenum	ppm	ASTM D5185(m)		40	40	40
Manganese	ppm	ASTM D5185(m)		0	<1	3
Magnesium	ppm	ASTM D5185(m)		529	532	500
Calcium	ppm	ASTM D5185(m)		1779	1736	1602
Phosphorus	ppm	ASTM D5185(m)		752	782	902
Zinc	ppm	ASTM D5185(m)		897	917	1045
Sulfur	ppm	ASTM D5185(m)		2090	2024	2196
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

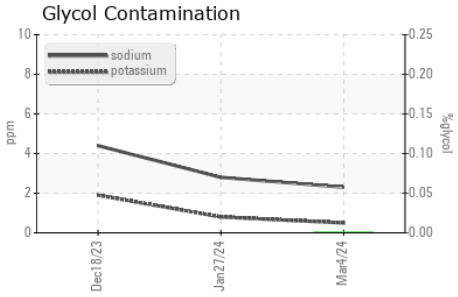
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	11	21	57
Sodium	ppm	ASTM D5185(m)	>118	2	3	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	2
Water	%	ASTM D6304*	>0.2	0.019	---	---
ppm Water	ppm	ASTM D6304*	>2000	191	---	---
Glycol	%	ASTM D7922*		0.0	NEG	NEG

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0.2	0.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	9.6	10.3	10.3
Sulfation	Abs./1mm	ASTM D7415*	>30	23.4	23.2	23.0



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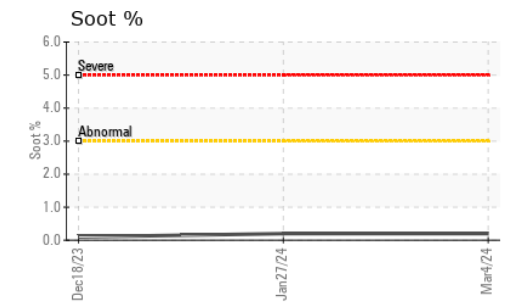
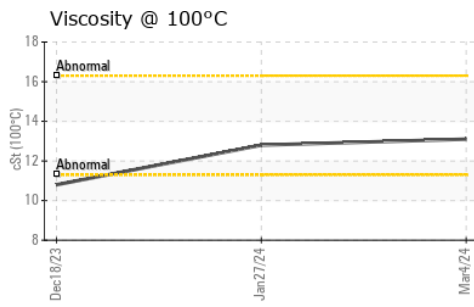
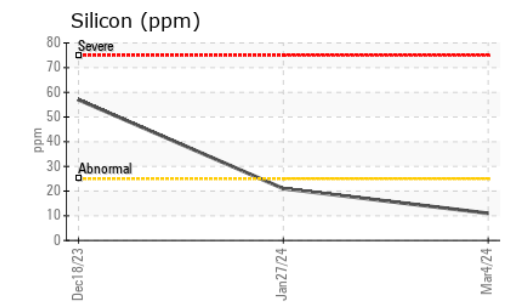
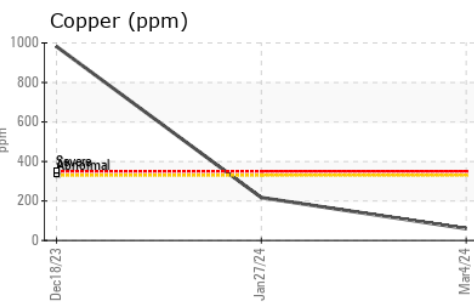
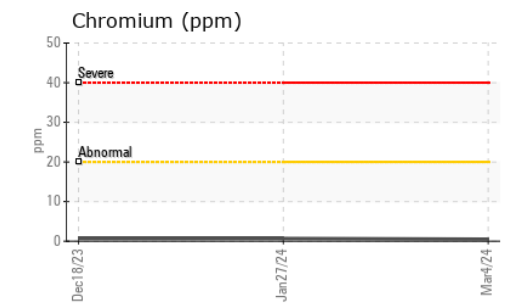
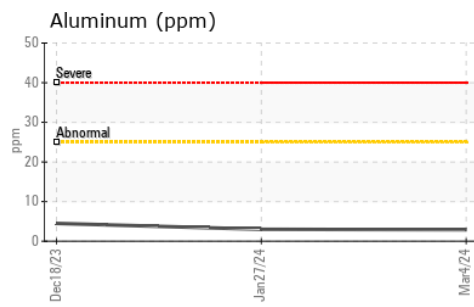
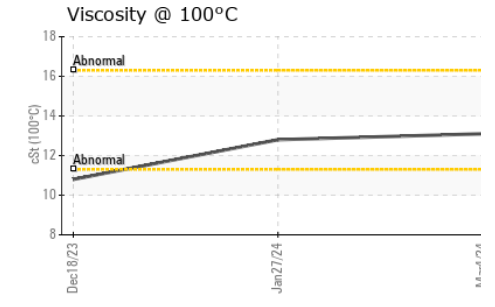
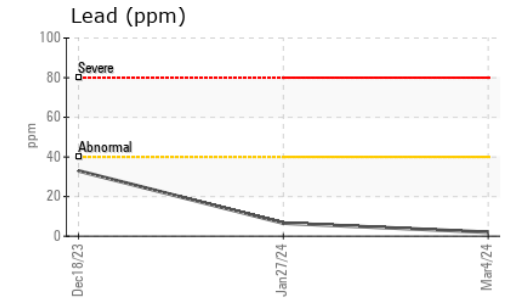
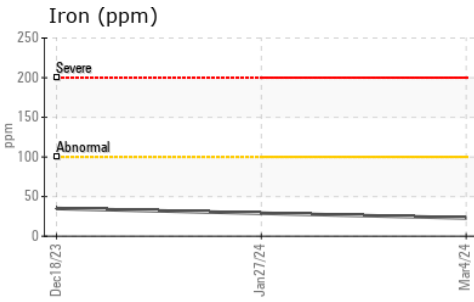
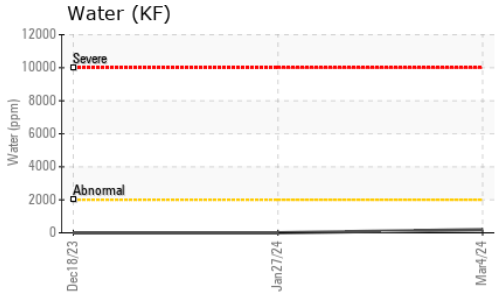


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	23.2	23.7	23.1

VISUAL	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.2	.2%	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	13.1	12.8	▲ 10.8

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0904160
Lab Number : **02621366**
Unique Number : 5746485
Test Package : MOB 1 (Additional Tests: Glycol, KF)

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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.