



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
NORTHAM - 250
Machine Id
CUMMINS 250U
Component
Left Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (91 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0755683	WC0736389	WC0309283
Sample Date		Client Info		15 Feb 2024	17 Aug 2022	28 Jan 2021
Machine Age	hrs	Client Info		314	282	252
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Not Chngd	N/A
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	9	8	7
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	21	21	21
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>40	2	1	<1
Copper	ppm	ASTM D5185(m)	>330	2	2	2
Tin	ppm	ASTM D5185(m)	>15	<1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	<1	<1

CONTAMINATION

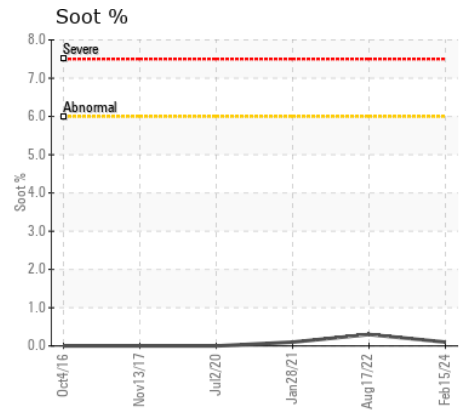
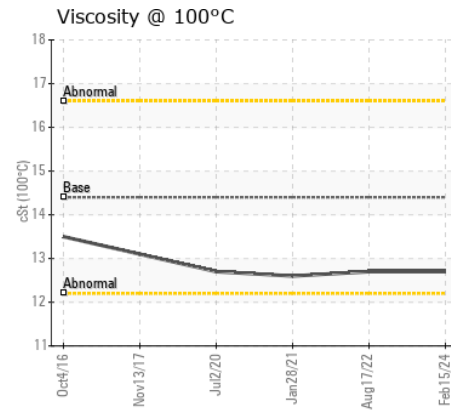
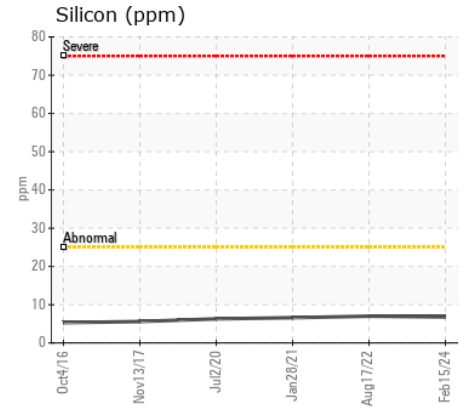
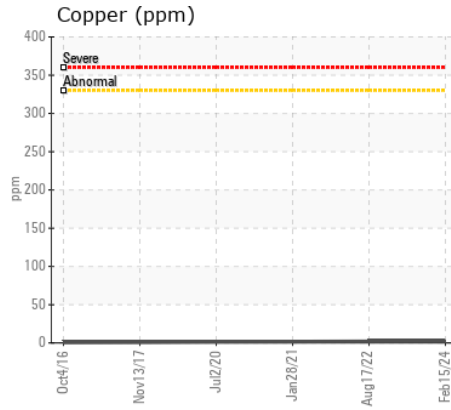
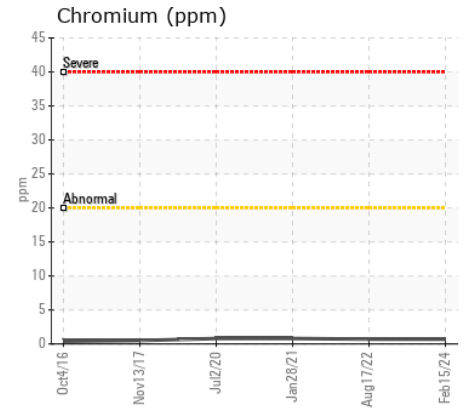
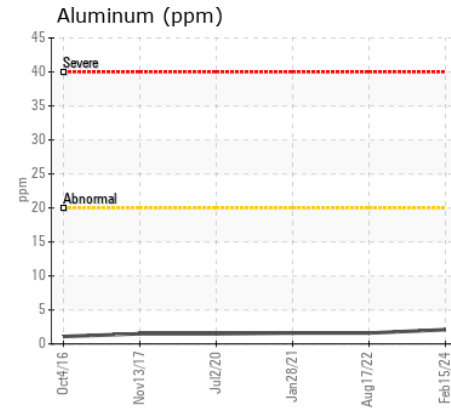
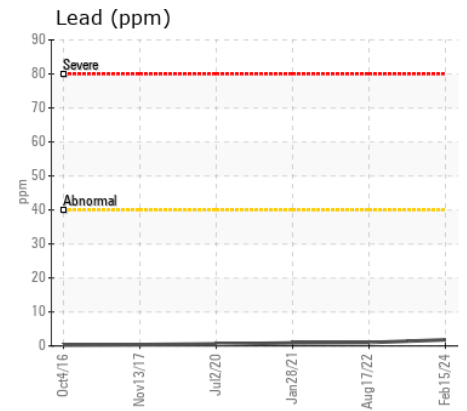
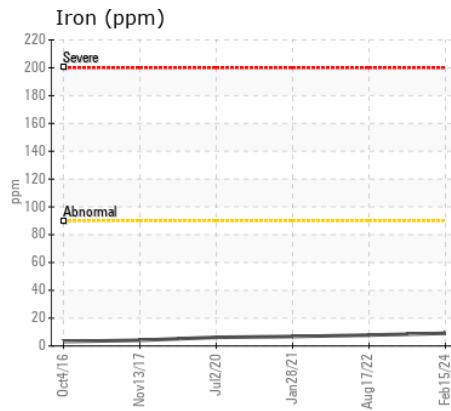
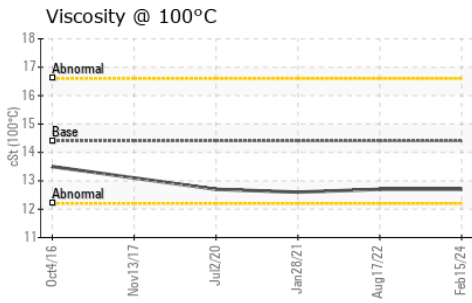
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	7	7	7
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.1	0.3	0.1
Nitration	Abs/cm	ASTM D7624*	>20	5.9	6.4	5.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	15.7	17.2	15.8
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>158	4	5	5
Boron	ppm	ASTM D5185(m)	250	<1	<1	<1
Barium	ppm	ASTM D5185(m)	10	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	45	45	43
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	942	938	940
Calcium	ppm	ASTM D5185(m)	3000	1227	1225	1202
Phosphorus	ppm	ASTM D5185(m)	1150	1039	1009	1028
Zinc	ppm	ASTM D5185(m)	1350	1195	1195	1252
Sulfur	ppm	ASTM D5185(m)	4250	2968	2919	2993
Oxidation	Abs/.1mm	ASTM D7414*	>25	11.4	13.3	12.0
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	12.7	12.7	12.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0755683 **Received** : 16 Feb 2024
Lab Number : 02616137 **Tested** : 16 Feb 2024
Unique Number : 5733247 **Diagnosed** : 16 Feb 2024 - Wes Davis
Test Package : MOB 1

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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.