



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CUMMINS 172
Component
Rear Diesel Engine
Fluid
ESSO XD-3 EXTRA 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0889009	WC0889095	WC0866444
Sample Date		Client Info		24 Apr 2024	15 Jan 2024	27 Nov 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		8513	9525	9409
Filter Age	kms	Client Info		8513	9525	9409
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	22	14	14
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	2	2
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	2	2	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

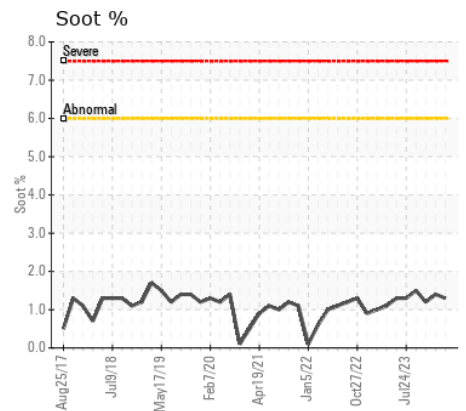
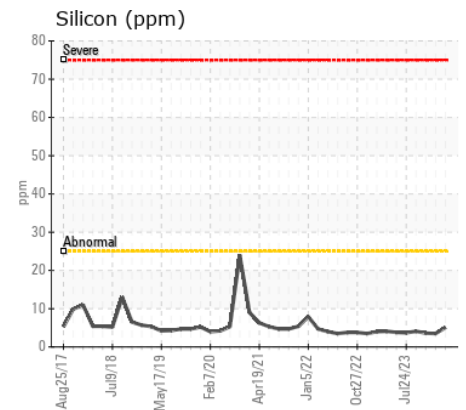
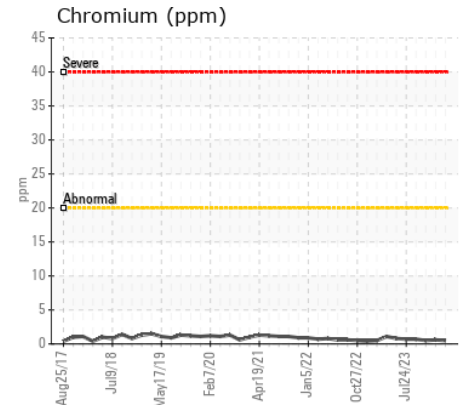
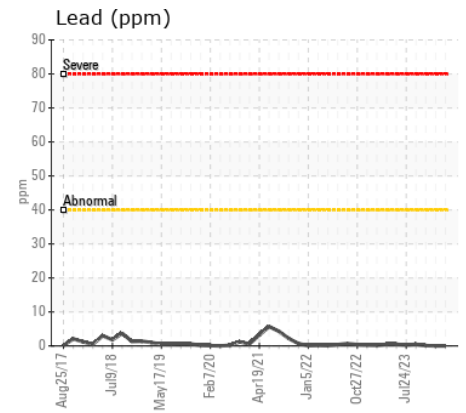
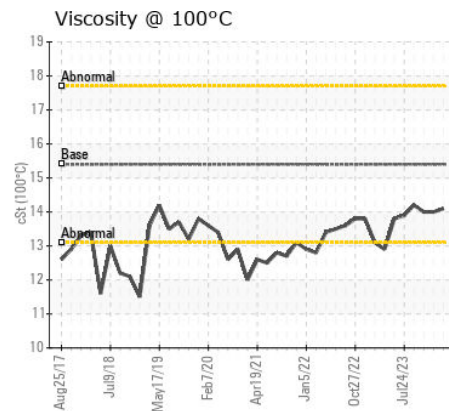
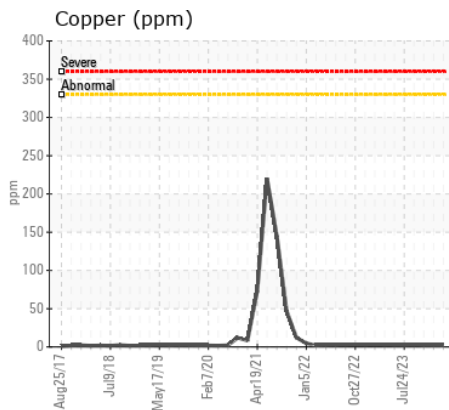
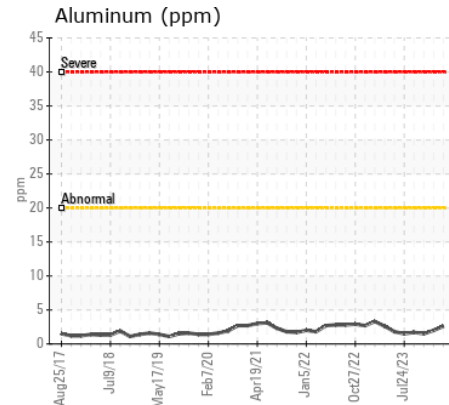
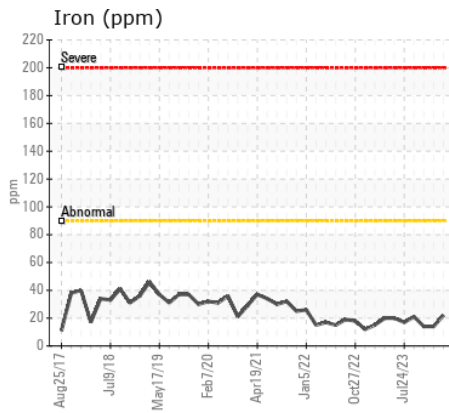
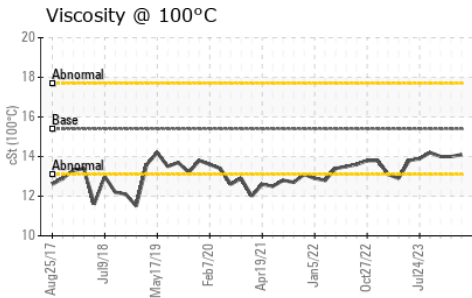
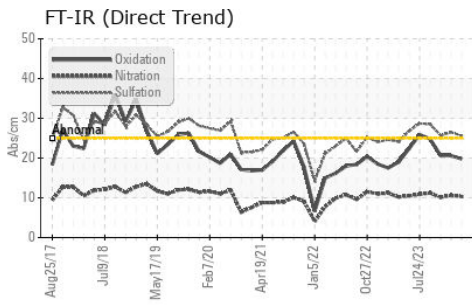
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	4	4
Potassium	ppm	ASTM D5185(m)	>20	7	7	5
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	1.3	1.4	1.2
Nitration	Abs/cm	ASTM D7624*	>20	10.3	10.6	10.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.6	26.5	25.7
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)	>192	3	2	3
Boron	ppm	ASTM D5185(m)		70	68	72
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		0	<1	0
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)		15	14	13
Calcium	ppm	ASTM D5185(m)	3780	2345	2300	2223
Phosphorus	ppm	ASTM D5185(m)	1370	994	993	962
Zinc	ppm	ASTM D5185(m)	1500	1184	1176	1155
Sulfur	ppm	ASTM D5185(m)	3800	2871	3077	2860
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.8	20.6	20.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.1	14.0	14.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0889009
Lab Number : 02631930
Unique Number : 5773083
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.