



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JCB 2002 MODEL L-7 (S/N 823162)
 Component
Rear Diesel Engine
 Fluid
SAFETY-KLEEN ECOPOWER 15W40 CJ-4 (11 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0772776	WC0550227	WC0438563
Sample Date		Client Info		20 Mar 2024	07 Feb 2022	26 Jan 2021
Machine Age	hrs	Client Info		1011	4225	363
Oil Age	hrs	Client Info		433	310	250
Filter Age	hrs	Client Info		433	310	250
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>250	22	48	30
Chromium	ppm	ASTM D5185(m)	>10	<1	1	1
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>35	3	4	3
Lead	ppm	ASTM D5185(m)	>100	<1	2	<1
Copper	ppm	ASTM D5185(m)	>60	4	5	3
Tin	ppm	ASTM D5185(m)	>5	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

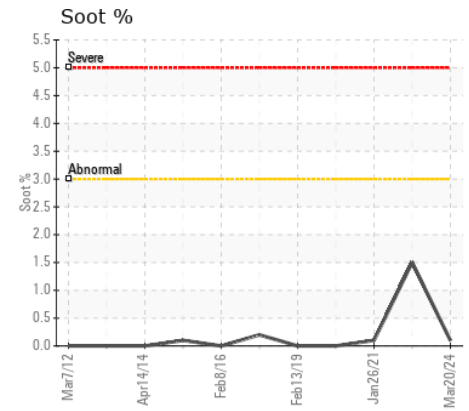
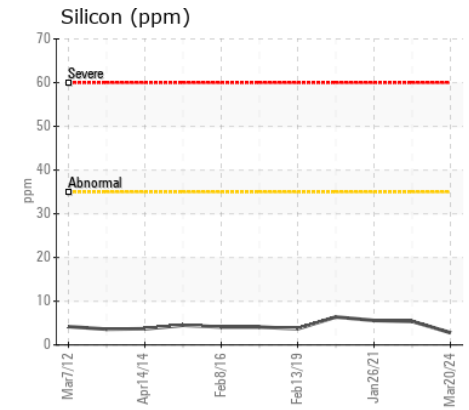
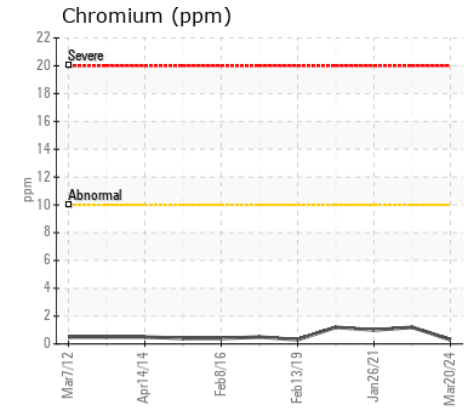
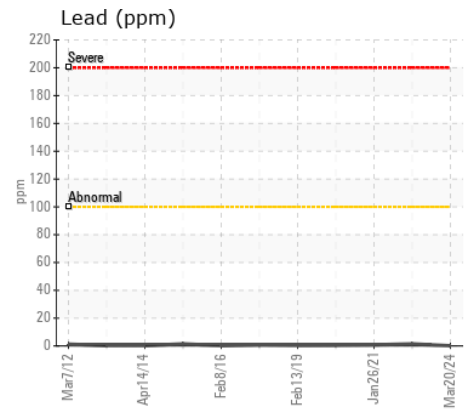
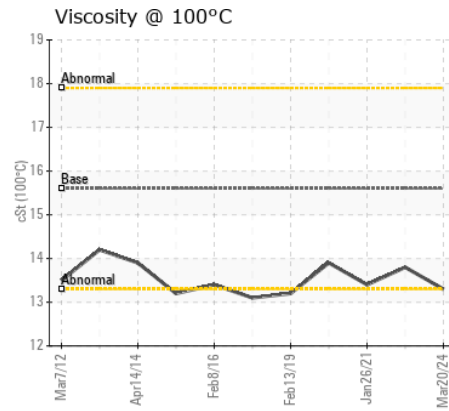
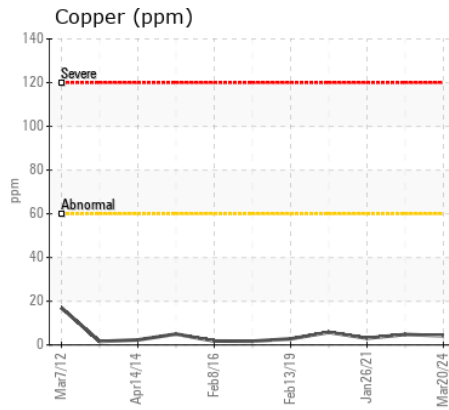
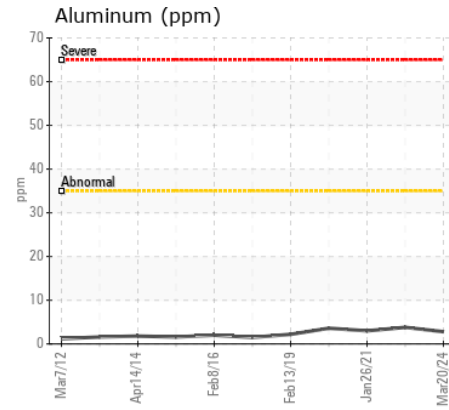
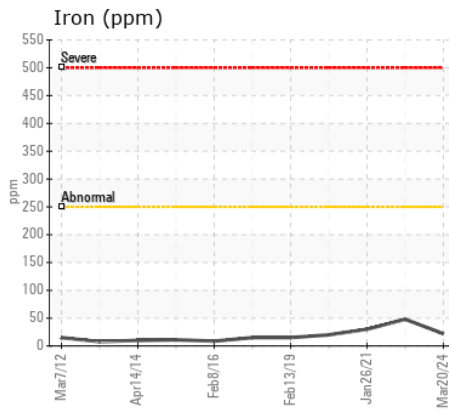
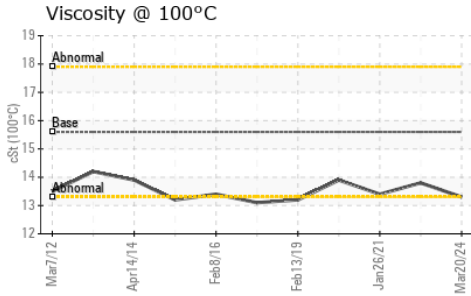
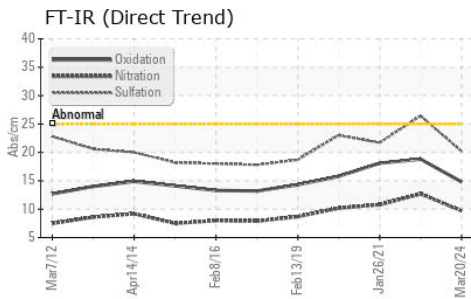
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	3	5	6
Potassium	ppm	ASTM D5185(m)	>20	3	<1	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.1	1.5	0.1
Nitration	Abs/cm	ASTM D7624*	>20	9.7	12.7	10.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	26.4	21.7
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)		8	4	4
Boron	ppm	ASTM D5185(m)	0	12	11	11
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	34	60	60
Manganese	ppm	ASTM D5185(m)		<1	1	<1
Magnesium	ppm	ASTM D5185(m)	825	304	807	734
Calcium	ppm	ASTM D5185(m)	925	1958	1396	1489
Phosphorus	ppm	ASTM D5185(m)	850	930	1009	970
Zinc	ppm	ASTM D5185(m)	1000	1090	1244	1263
Sulfur	ppm	ASTM D5185(m)	2250	2894	2854	3019
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.8	18.8	18.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.3	13.8	13.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0772776
Lab Number : 02629523
Unique Number : 5762655
Test Package : MOB 1

MIDDLESEX COUNTY ROAD DEPARTMENT
 1988 GAINSBOROUGH ROAD, R.R. #41
 LONDON, ON
 CA N6H 5L2
 Contact: PAUL MONIZ
 pmoniz@middlesex.ca
 T: (519)471-2020
 F: (519)471-2335

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.