MOB I WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 181 MAIN
Component
Diesel Engine
Fluid
TOTAL FINA RUBIA TIR 7900 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

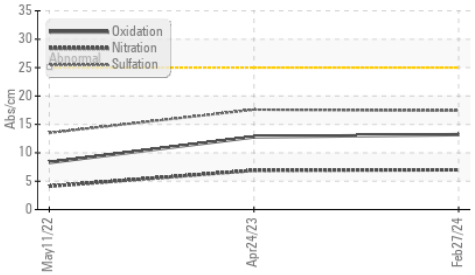
There is no indication of any contamination in the oil.

FLUID CONDITION

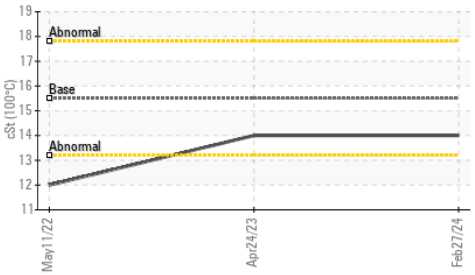
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0888834	WC0787096	WC0665442
Sample Date		Client Info		27 Feb 2024	24 Apr 2023	11 May 2022
Machine Age	hrs	Client Info		128	106	77
Oil Age	hrs	Client Info		22	0	0
Filter Age	hrs	Client Info		22	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>51	2	2	1
Chromium	ppm	ASTM D5185(m)	>11	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>31	2	3	<1
Lead	ppm	ASTM D5185(m)	>26	0	<1	<1
Copper	ppm	ASTM D5185(m)	>26	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	<1	0
Silicon	ppm	ASTM D5185(m)	>22	3	7	1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>2.1	<1.0	<1.0	0.7
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.0	6.9	4.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.4	17.6	13.5
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>31	2	2	1
Boron	ppm	ASTM D5185(m)		74	78	2
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		92	91	1
Manganese	ppm	ASTM D5185(m)		0	<1	0
Magnesium	ppm	ASTM D5185(m)		26	31	40
Calcium	ppm	ASTM D5185(m)	3290	2189	2254	2395
Phosphorus	ppm	ASTM D5185(m)	1200	1026	1107	1076
Zinc	ppm	ASTM D5185(m)	1400	1139	1136	1115
Sulfur	ppm	ASTM D5185(m)	4000	3157	3331	2599
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.2	12.8	8.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	14.0	14.0	12.0

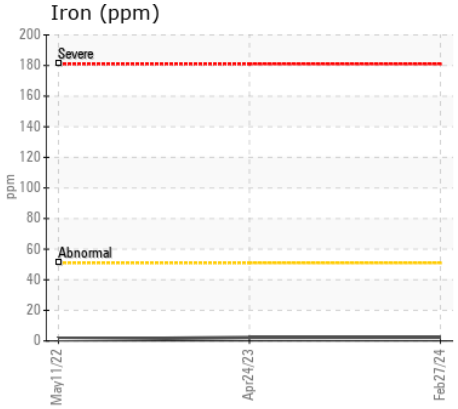
FT-IR (Direct Trend)



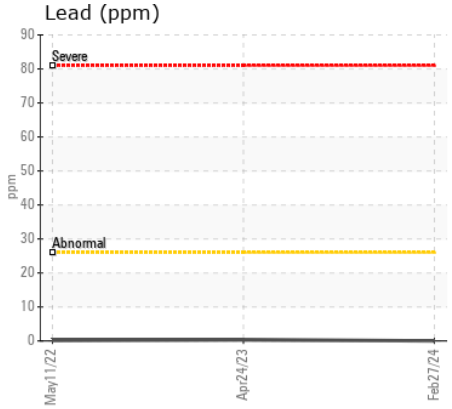
Viscosity @ 100°C



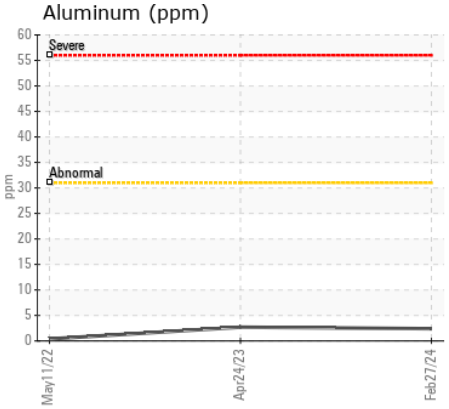
Iron (ppm)



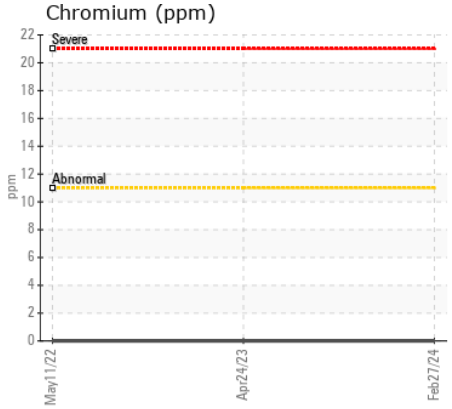
Lead (ppm)



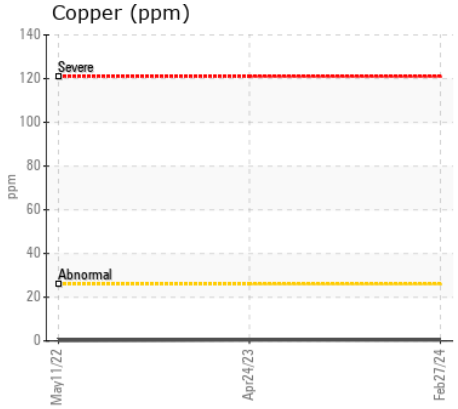
Aluminum (ppm)



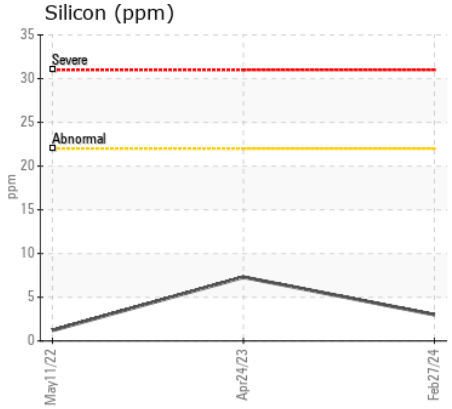
Chromium (ppm)



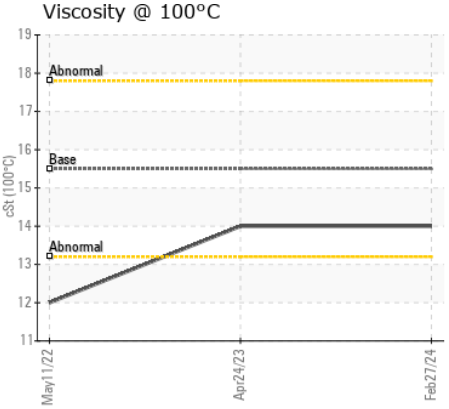
Copper (ppm)



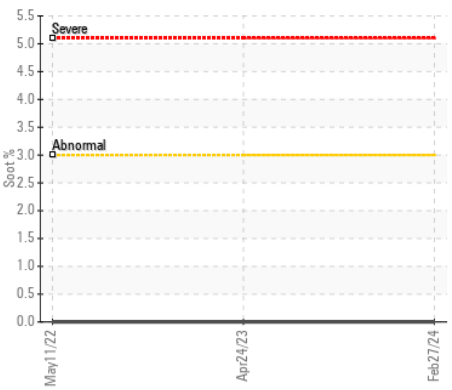
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0888834
Lab Number : 02628729
Unique Number : 5761861
Test Package : MOB 1

Received : 15 Apr 2024
Tested : 15 Apr 2024
Diagnosed : 15 Apr 2024 - Wes Davis

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.

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