



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 644K LDR009
Component
Diesel Engine
Fluid
MOBIL 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0920178	WC0904238	WC0886091
Sample Date		Client Info		11 Apr 2024	10 Feb 2024	05 Jan 2024
Machine Age	hrs	Client Info		12657	12116	111363
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>51	34	33	36
Chromium	ppm	ASTM D5185(m)	>11	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	2	2	2
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>31	2	2	2
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	0	0

CONTAMINATION

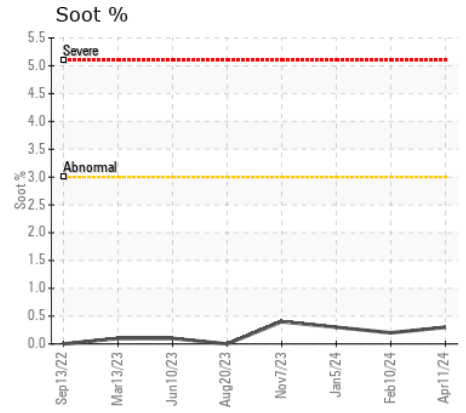
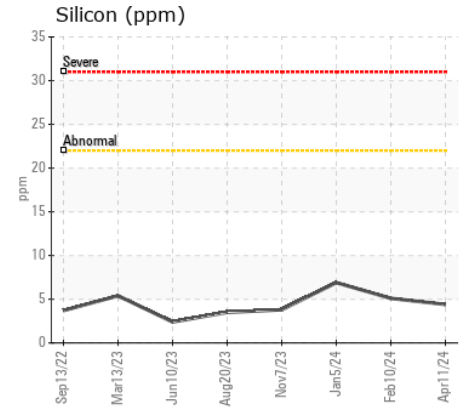
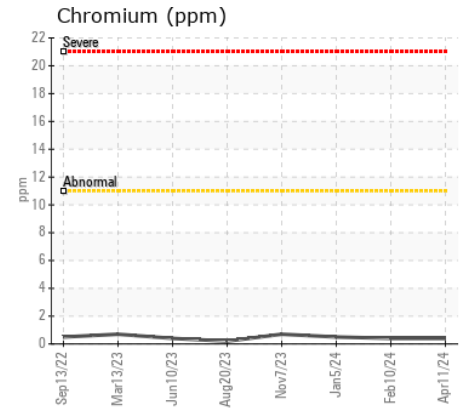
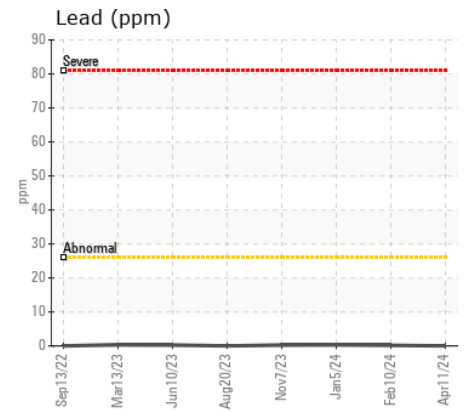
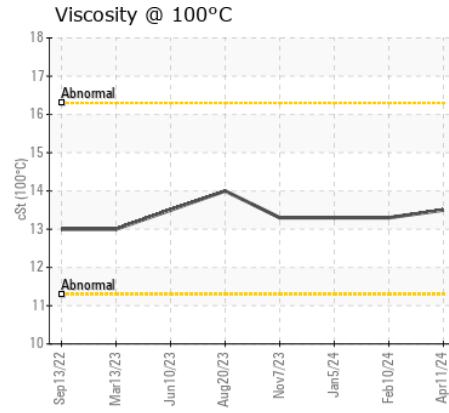
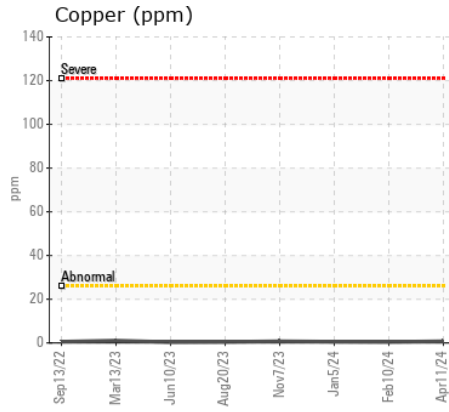
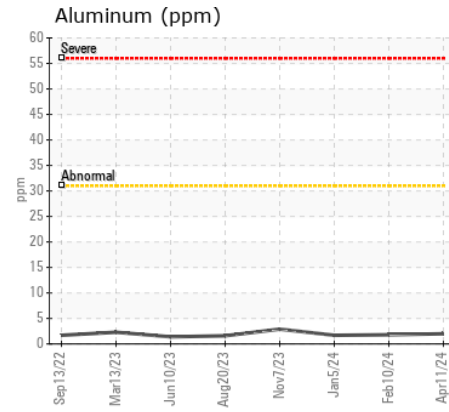
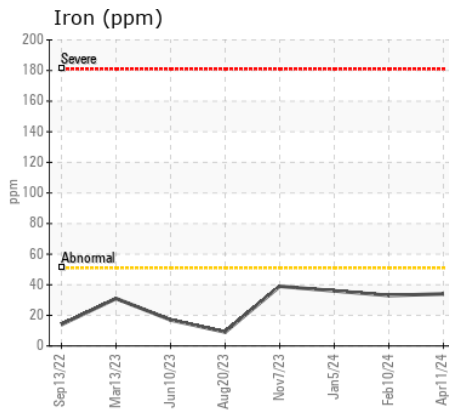
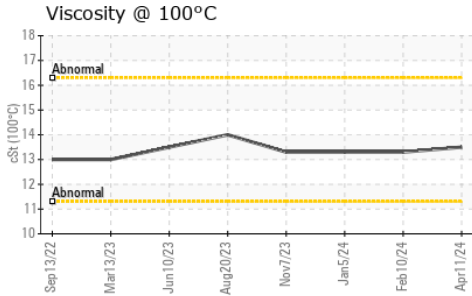
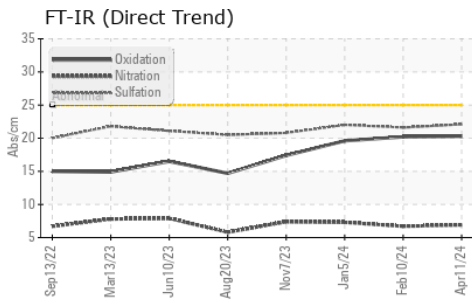
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	4	5	7
Potassium	ppm	ASTM D5185(m)	>20	0	1	4
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.3	0.2	0.3
Nitration	Abs/cm	ASTM D7624*	>20	6.9	6.7	7.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.1	21.6	22.0
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>118	2	2	2
Boron	ppm	ASTM D5185(m)		41	35	35
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		39	40	42
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)		524	529	571
Calcium	ppm	ASTM D5185(m)		1733	1691	1619
Phosphorus	ppm	ASTM D5185(m)		743	767	820
Zinc	ppm	ASTM D5185(m)		869	878	930
Sulfur	ppm	ASTM D5185(m)		2118	2264	2341
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.3	20.2	19.6
Visc @ 100°C	cSt	ASTM D7279(m)		13.5	13.3	13.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0920178
Lab Number : 02629579
Unique Number : 5762711
Test Package : MOB 1
Received : 17 Apr 2024
Tested : 17 Apr 2024
Diagnosed : 17 Apr 2024 - Wes Davis

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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.