



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		WC0886091	WC0865541	WC0835155
Sample Date		Client Info		05 Jan 2024	07 Nov 2023	20 Aug 2023
Machine Age	hrs	Client Info		111363	11055	10461
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		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>51	36	39	9
Chromium	ppm	ASTM D5185(m)	>11	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	2	4	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>31	2	3	2
Lead	ppm	ASTM D5185(m)	>26	<1	<1	0
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

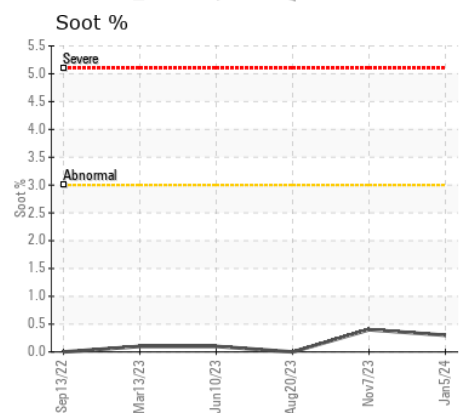
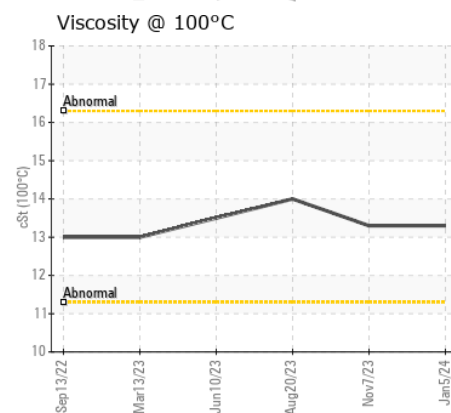
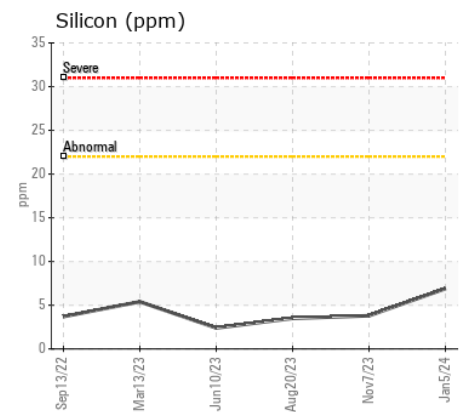
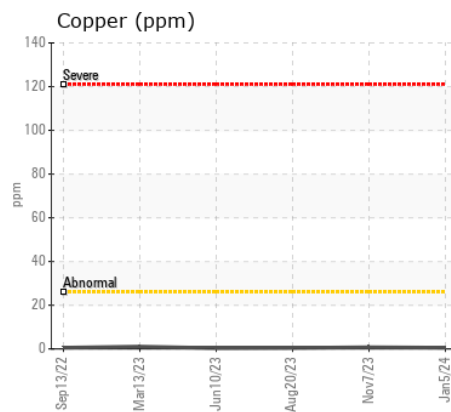
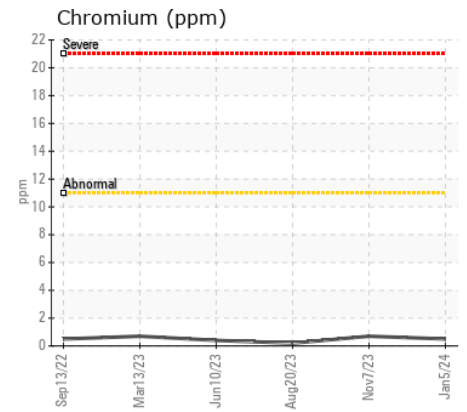
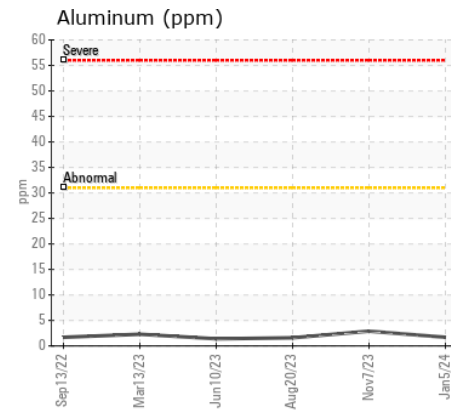
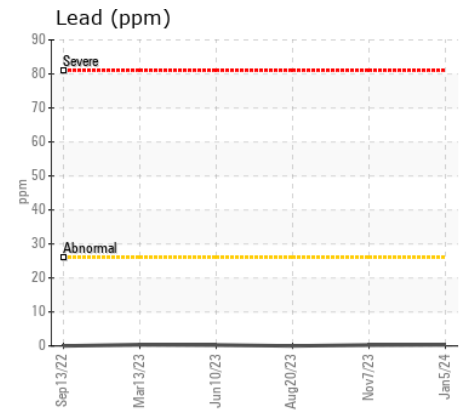
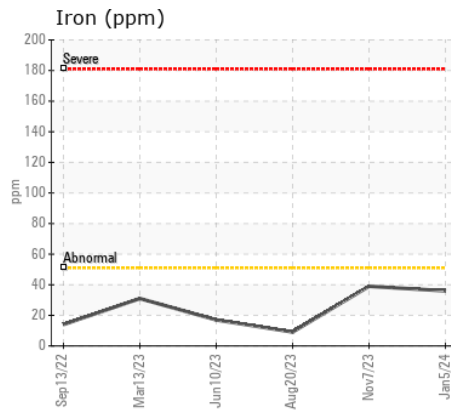
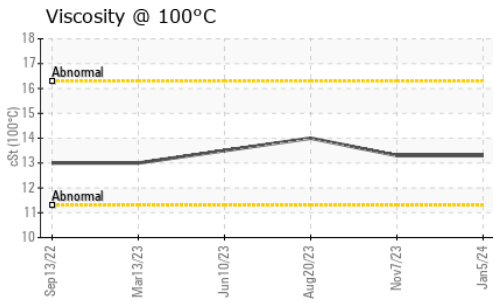
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	7	4	4
Potassium	ppm	ASTM D5185(m)	>20	4	3	8
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	0.4	0
Nitration	Abs/cm	ASTM D7624*	>20	7.3	7.4	5.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.0	20.8	20.5
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	3
Boron	ppm	ASTM D5185(m)		35	43	169
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		42	35	2
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		571	463	18
Calcium	ppm	ASTM D5185(m)		1619	1749	2159
Phosphorus	ppm	ASTM D5185(m)		820	844	1046
Zinc	ppm	ASTM D5185(m)		930	1022	1131
Sulfur	ppm	ASTM D5185(m)		2341	2412	3027
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.6	17.4	14.7
Visc @ 100°C	cSt	ASTM D7279(m)		13.3	13.3	14.0



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0886091
Lab Number : 02608131
Unique Number : 5709217
Test Package : MOB 1

Received : 11 Jan 2024
Diagnosed : 11 Jan 2024
Diagnostician : 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.