



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE D/G #2 (S/N CD4045CO13008)
 Component
2 Diesel Engine
 Fluid
SHELL 15W40 (13 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0955558	WC0722087	WC0693932
Sample Date		Client Info		28 Jun 2024	27 Apr 2023	11 Sep 2022
Machine Age	hrs	Client Info		20879	0	18390
Oil Age	hrs	Client Info		490	0	502
Filter Age	hrs	Client Info		490	0	502
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>51	38	22	14
Chromium	ppm	ASTM D5185(m)	>11	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>31	1	2	1
Lead	ppm	ASTM D5185(m)	>26	6	6	1
Copper	ppm	ASTM D5185(m)	>26	1	13	<1
Tin	ppm	ASTM D5185(m)	>4	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

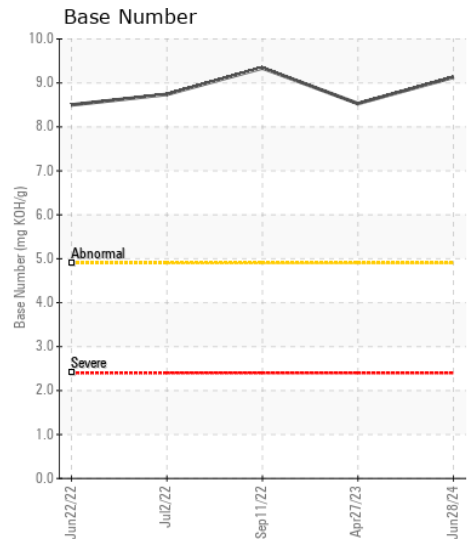
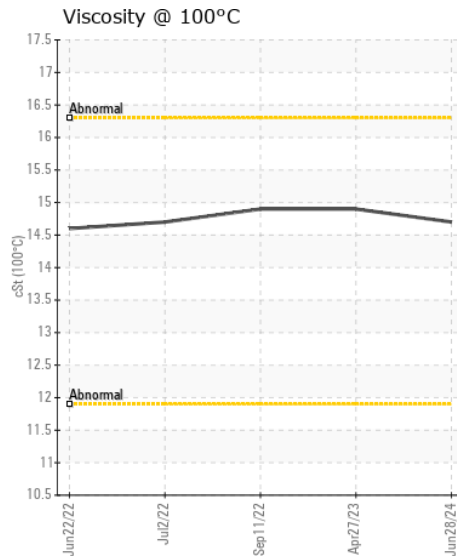
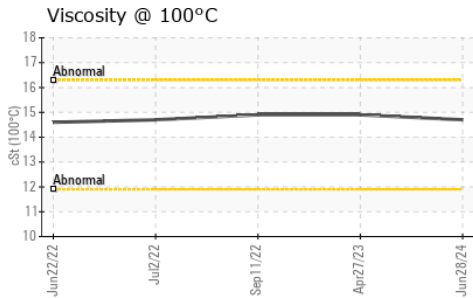
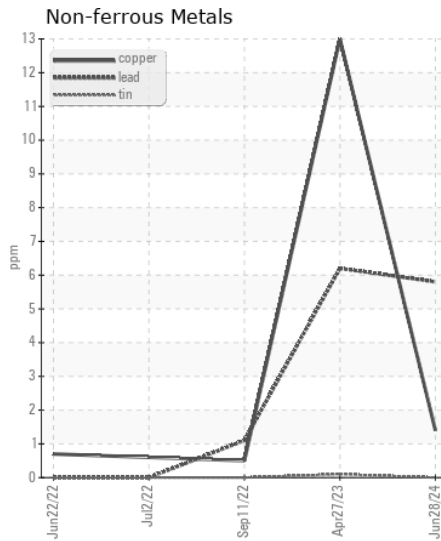
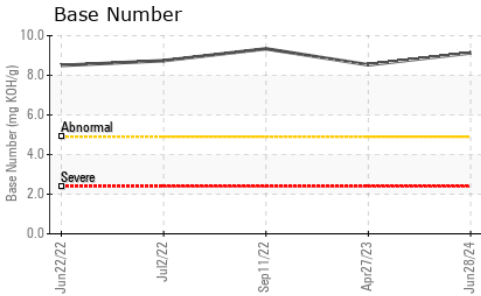
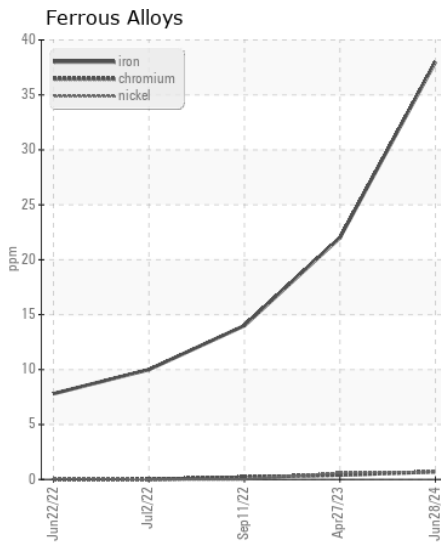
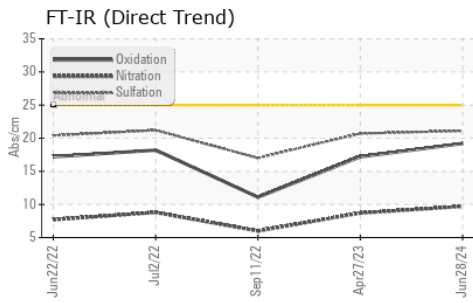
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	3	7	3
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
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	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	9.7	8.7	6.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.1	20.7	17.0
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)	>150	3	2	3
Boron	ppm	ASTM D5185(m)		11	16	19
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		67	66	66
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		972	909	930
Calcium	ppm	ASTM D5185(m)		1357	1410	1434
Phosphorus	ppm	ASTM D5185(m)		1019	1131	1169
Zinc	ppm	ASTM D5185(m)		1304	1303	1315
Sulfur	ppm	ASTM D5185(m)		2703	2822	3019
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.2	17.2	11.1
Base Number (BN)	mg KOH/g	ASTM D2896*		9.13	8.53	9.34
Visc @ 100°C	cSt	ASTM D7279(m)		14.7	14.9	14.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0955558
Lab Number : 02645379
Unique Number : 5802918
Test Package : MAR 2
Received : 04 Jul 2024
Tested : 04 Jul 2024
Diagnosed : 04 Jul 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.