



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W63939]
 Machine Id
JOHN DEERE 770GP 1DW770GPEEF665757
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W63939)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0203552	JR0161483	JR0133622
Sample Date		Client Info		09 Feb 2024	08 May 2023	24 Jun 2022
Machine Age	hrs	Client Info		2000	1527	1026
Oil Age	hrs	Client Info		1026	0	561
Filter Age	hrs	Client Info		0	0	561
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	16	59	▲ 125
Chromium	ppm	ASTM D5185m	>11	<1	2	3
Nickel	ppm	ASTM D5185m	>5	1	▲ 8	▲ 17
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	2	5	8
Lead	ppm	ASTM D5185m	>26	0	1	1
Copper	ppm	ASTM D5185m	>26	1	9	63
Tin	ppm	ASTM D5185m	>4	0	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

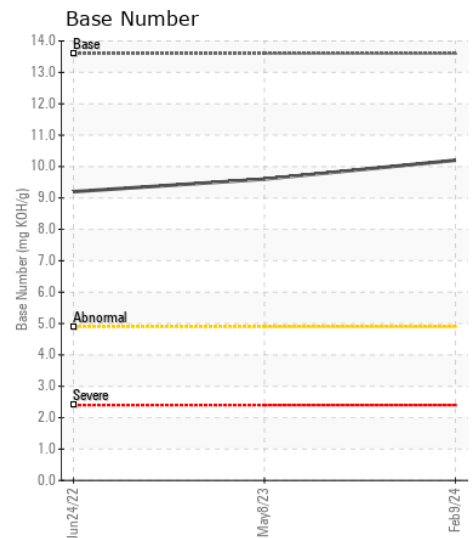
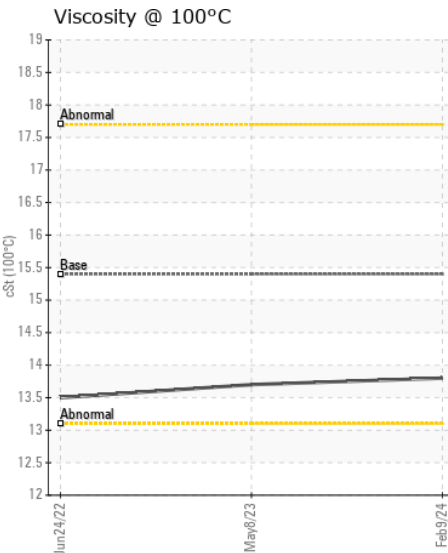
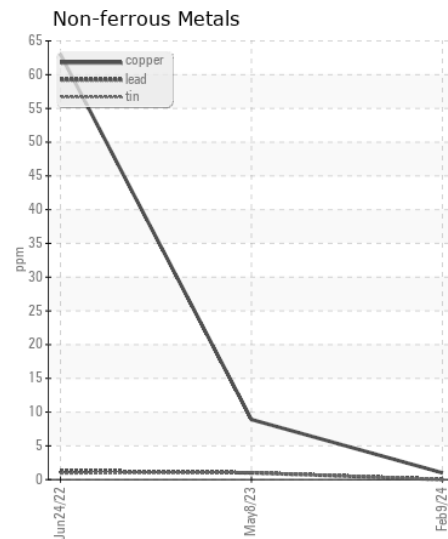
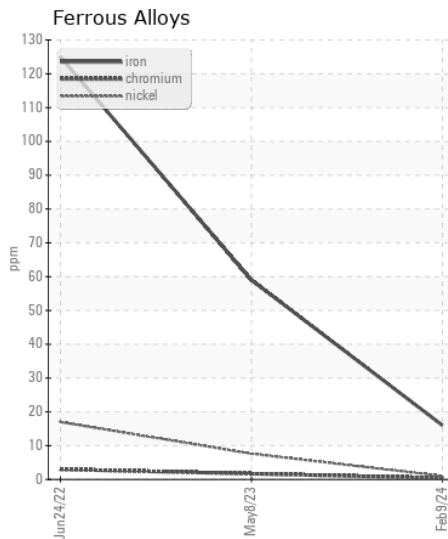
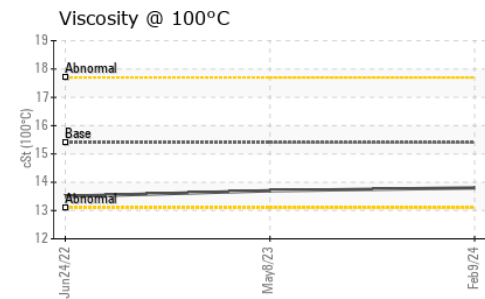
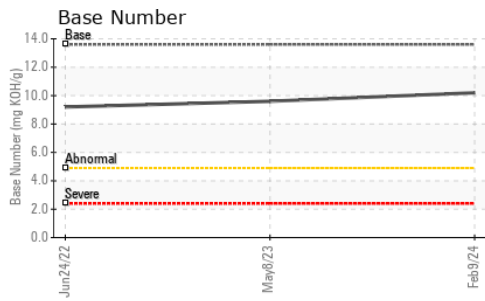
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	6	8	8
Potassium	ppm	ASTM D5185m	>20	2	4	<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	0.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	4.7	7.5	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	20.6	20.3
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>31	0	2	2
Boron	ppm	ASTM D5185m		47	231	219
Barium	ppm	ASTM D5185m		12	0	0
Molybdenum	ppm	ASTM D5185m		110	246	221
Manganese	ppm	ASTM D5185m		0	1	2
Magnesium	ppm	ASTM D5185m		1271	822	725
Calcium	ppm	ASTM D5185m		1435	1377	1488
Phosphorus	ppm	ASTM D5185m		1472	899	839
Zinc	ppm	ASTM D5185m		1600	1095	1037
Sulfur	ppm	ASTM D5185m		5258	3687	3390
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	15.0	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	10.2	9.6	9.2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.7	13.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0203552 **Received** : 14 Feb 2024
Lab Number : 06088639 **Tested** : 15 Feb 2024
Unique Number : 10876084 **Diagnosed** : 15 Feb 2024 - Sean Felton
Test Package : CONST (Additional Tests: TBN)

JRE - CHARLOTTE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269

Contact: CHARLOTTE SHOP
 myoung@jamesriverequipment.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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