



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 672GP 1DW672GPVNF716224
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: W62607)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0189316	JR0171667	JR0162656
Sample Date		Client Info		20 Dec 2023	11 Sep 2023	28 Apr 2023
Machine Age	hrs	Client Info		1489	1113	503
Oil Age	hrs	Client Info		376	610	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The copper level has decreased, but is still abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	6	16	23
Chromium	ppm	ASTM D5185m	>11	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	2	6	6
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	4	4	0
Lead	ppm	ASTM D5185m	>26	0	3	2
Copper	ppm	ASTM D5185m	>26	▲ 32	▲ 227	▲ 232
Tin	ppm	ASTM D5185m	>4	<1	<1	2
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

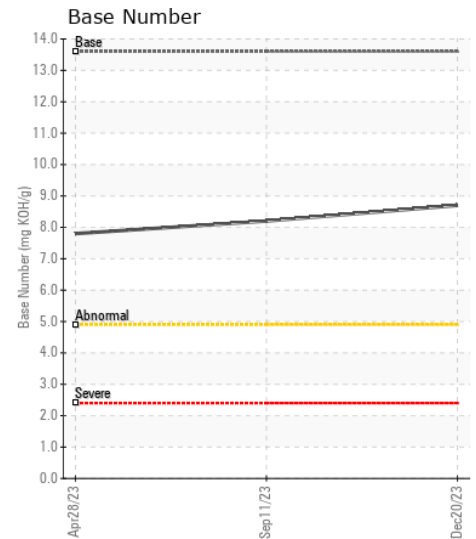
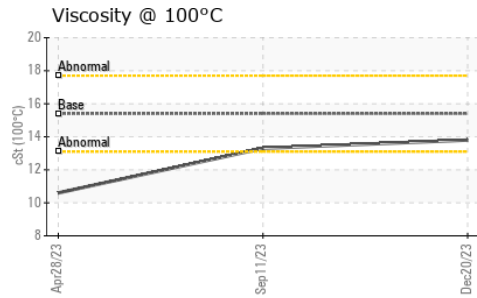
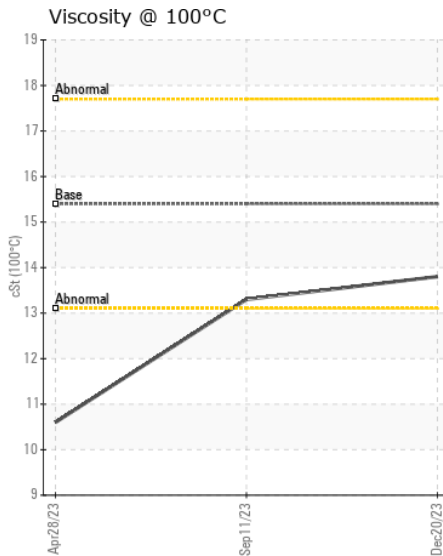
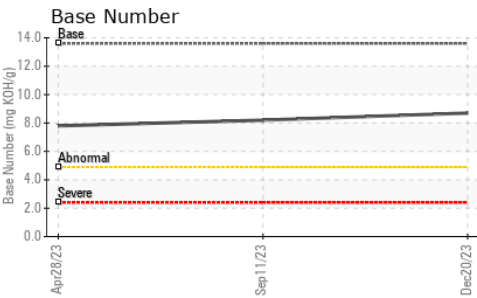
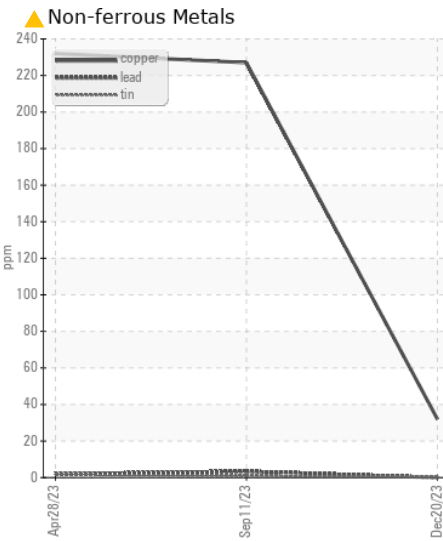
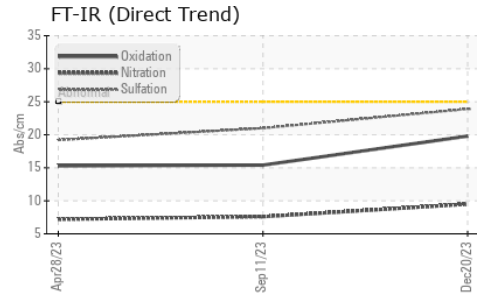
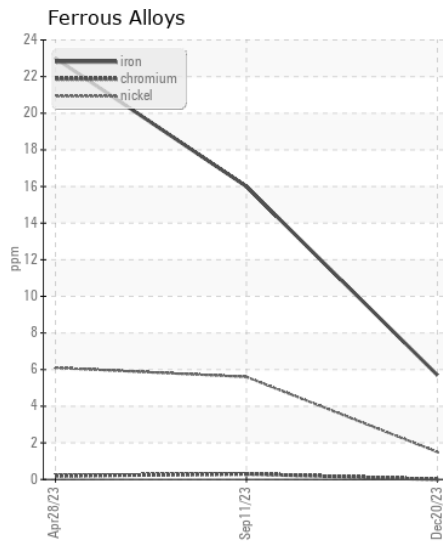
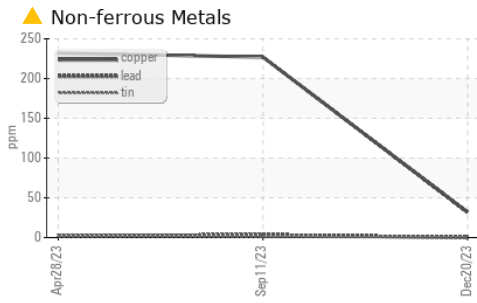
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	6	7	7
Potassium	ppm	ASTM D5185m	>20	1	2	9
Fuel		WC Method	>2.1	<1.0	<1.0	0.2
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.5	7.6	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	21.0	19.2
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 suitable for further service.

Sodium	ppm	ASTM D5185m	>31	0	3	5
Boron	ppm	ASTM D5185m		251	233	219
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		244	252	231
Manganese	ppm	ASTM D5185m		<1	1	2
Magnesium	ppm	ASTM D5185m		822	883	777
Calcium	ppm	ASTM D5185m		1315	1526	1388
Phosphorus	ppm	ASTM D5185m		941	902	890
Zinc	ppm	ASTM D5185m		1050	1124	1089
Sulfur	ppm	ASTM D5185m		2951	3526	2858
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8	15.4	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.7	8.2	7.8
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.3	10.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0189316 **Received** : 26 Dec 2023
Lab Number : 06044392 **Tested** : 27 Dec 2023
Unique Number : 10805000 **Diagnosed** : 27 Dec 2023 - Don Baldrige
Test Package : CONST (Additional Tests: TBN)

CARLTON'S BACKHOE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269
 Contact: LEO

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)

T: (704)547-0211

F: