



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 672GP 1DW672GPVMF712463

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0199822	JR0164486	JR0146986
Sample Date		Client Info		09 Feb 2024	31 May 2023	10 Jan 2023
Machine Age	hrs	Client Info		2483	1945	1465
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	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Valve wear is indicated. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	30	18	17
Chromium	ppm	ASTM D5185m	>11	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	▲ 21	2	6
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	4	0	3
Lead	ppm	ASTM D5185m	>26	<1	0	1
Copper	ppm	ASTM D5185m	>26	1	2	1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
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.

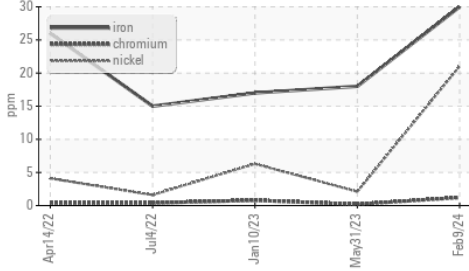
Silicon	ppm	ASTM D5185m	>22	8	5	6
Potassium	ppm	ASTM D5185m	>20	2	2	1
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.5	7.9	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	21.4	21.1
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

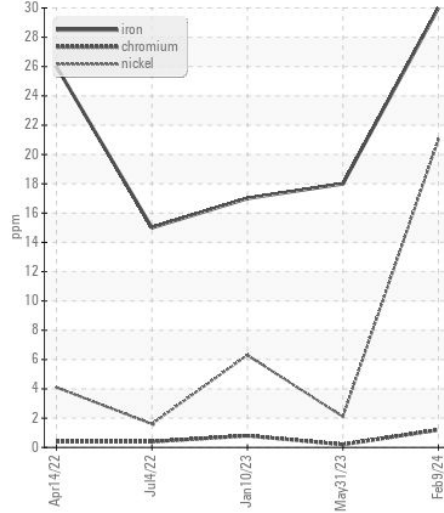
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>31	0	2	1
Boron	ppm	ASTM D5185m		254	229	228
Barium	ppm	ASTM D5185m		15	0	0
Molybdenum	ppm	ASTM D5185m		255	223	246
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		747	792	840
Calcium	ppm	ASTM D5185m		1354	1481	1555
Phosphorus	ppm	ASTM D5185m		931	878	904
Zinc	ppm	ASTM D5185m		1057	1084	1168
Sulfur	ppm	ASTM D5185m		3456	3695	3799
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	15.3	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.3	9.1	9.1
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.4	13.7

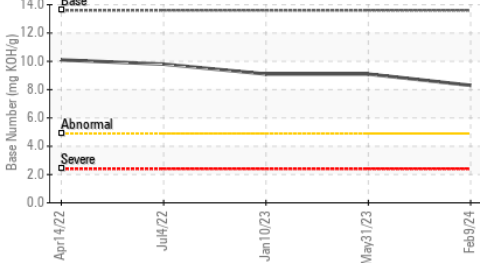
▲ Ferrous Alloys



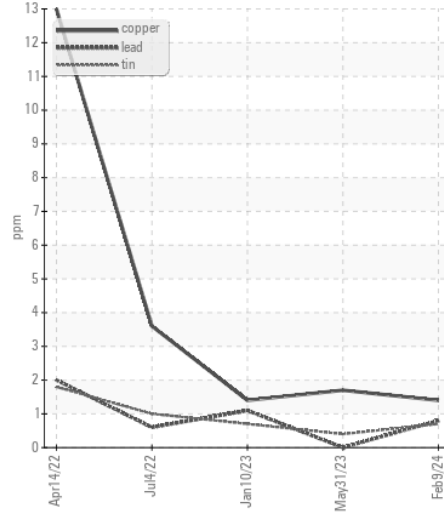
▲ Ferrous Alloys



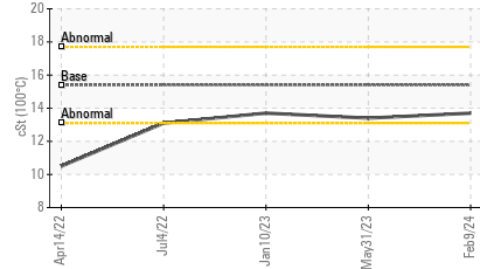
Base Number



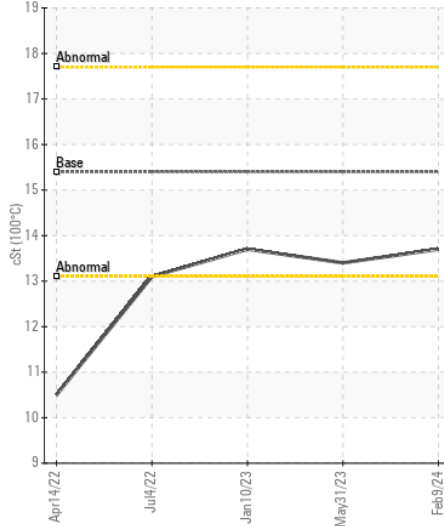
Non-ferrous Metals



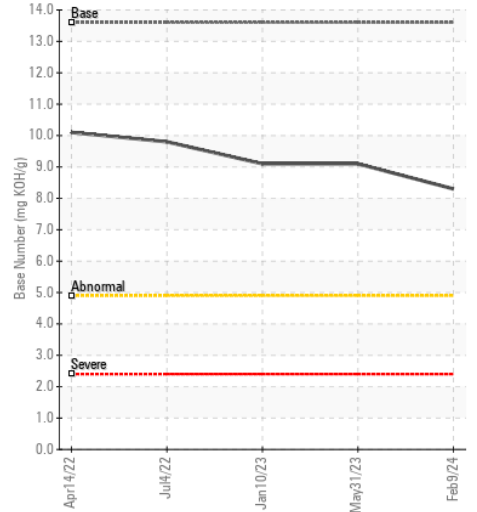
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0199822 **Received** : 12 Feb 2024
Lab Number : 06085714 **Tested** : 12 Feb 2024
Unique Number : 10873159 **Diagnosed** : 13 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: TBN)

J.E. LIESFELD CONTRACTOR
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 ROCKVILLE, VA
 US 23146
 Contact: JOSH KONDAKOR
 jkondakor@liesfeld.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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F: