



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 350G 1FF350GXPLF814289

Component
Diesel Engine

Fluid
{not provided} (--- 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		JR0198385	JR0163769	JR0146179
Sample Date		Client Info		09 Jan 2024	23 Mar 2023	04 Nov 2022
Machine Age	hrs	Client Info		4522	3202	2620
Oil Age	hrs	Client Info		1320	582	547
Filter Age	hrs	Client Info		0	582	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The iron level is abnormal. Valve wear is indicated.

Iron	ppm	ASTM D5185m	>51	▲ 79	▲ 68	45
Chromium	ppm	ASTM D5185m	>11	2	1	<1
Nickel	ppm	ASTM D5185m	>5	▲ 15	▲ 24	▲ 21
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>31	13	5	3
Lead	ppm	ASTM D5185m	>26	6	2	<1
Copper	ppm	ASTM D5185m	>26	13	▲ 34	5
Tin	ppm	ASTM D5185m	>4	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<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.

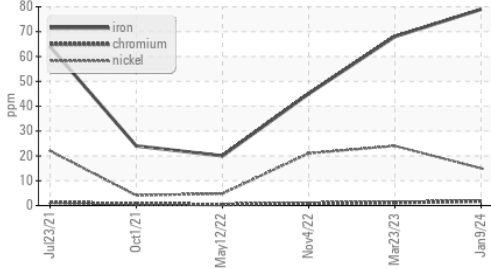
Silicon	ppm	ASTM D5185m	>22	9	8	9
Potassium	ppm	ASTM D5185m	>20	27	3	3
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.9	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.5	10.4	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.0	26.5	23.9
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

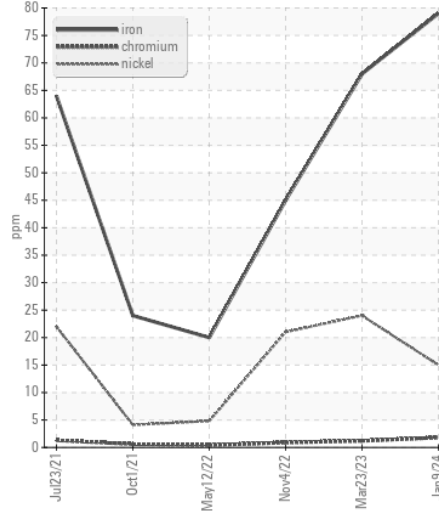
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>31	2	2	<1
Boron	ppm	ASTM D5185m		6	30	156
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		231	244	269
Manganese	ppm	ASTM D5185m		2	1	<1
Magnesium	ppm	ASTM D5185m		881	740	816
Calcium	ppm	ASTM D5185m		1509	1505	1585
Phosphorus	ppm	ASTM D5185m		852	793	929
Zinc	ppm	ASTM D5185m		1145	1037	1121
Sulfur	ppm	ASTM D5185m		2832	2729	3534
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.4	20.6	17.8
Base Number (BN)	mg KOH/g	ASTM D2896		7.5	8.0	9.8
Visc @ 100°C	cSt	ASTM D445		13.1	13.0	13.2

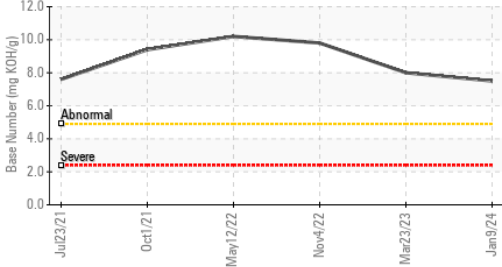
▲ Ferrous Alloys



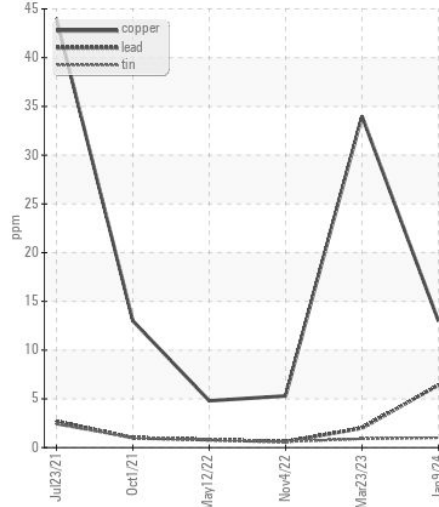
▲ Ferrous Alloys



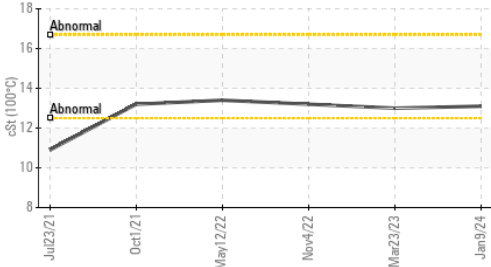
Base Number



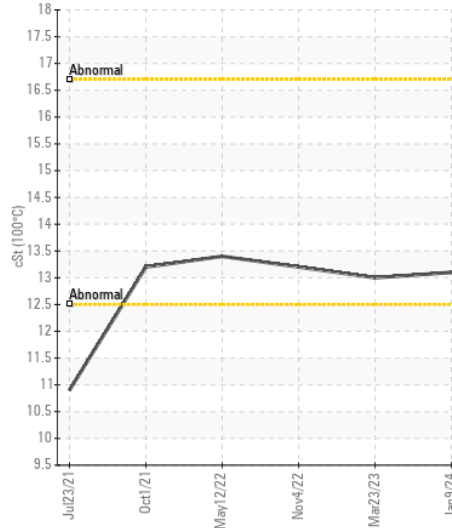
Non-ferrous Metals



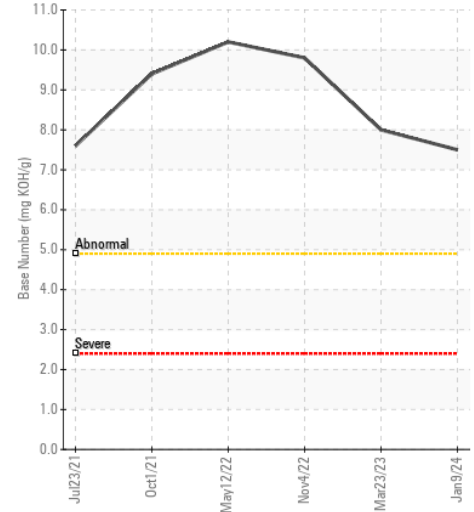
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0198385 **Received** : 12 Jan 2024
Lab Number : 06059110 **Diagnosed** : 15 Jan 2024
Unique Number : 10830492 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: TBN)

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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