



WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 317G 1T0317GJHKJ352212

Component
Diesel Engine

Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0138500	JR0079773	JR0064880
Sample Date		Client Info		19 Jan 2023	04 Mar 2021	28 Nov 2020
Machine Age	hrs	Client Info		1096	492	388
Oil Age	hrs	Client Info		0	500	500
Filter Age	hrs	Client Info		0	500	500
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	44	30	11
Chromium	ppm	ASTM D5185m	>11	2	2	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>31	24	17	5
Lead	ppm	ASTM D5185m	>26	<1	<1	2
Copper	ppm	ASTM D5185m	>26	10	25	▲ 120
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

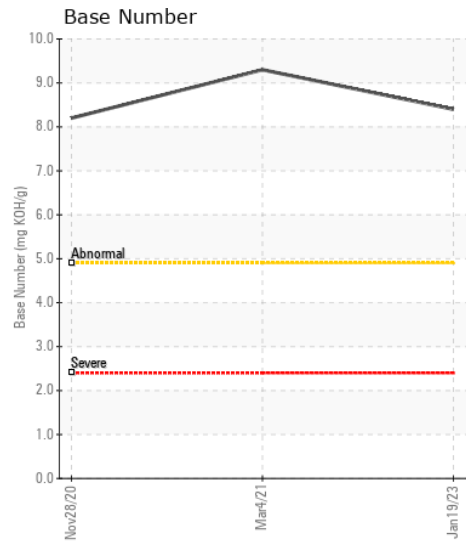
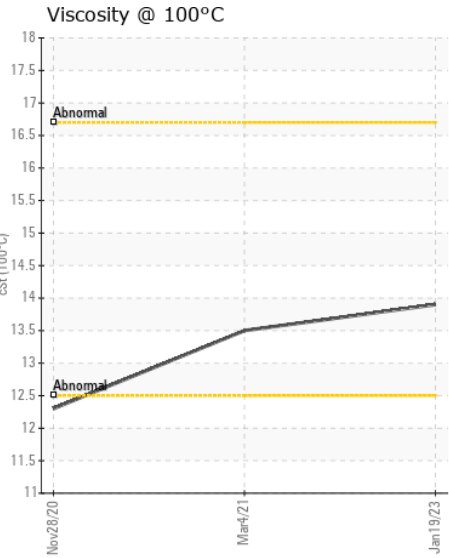
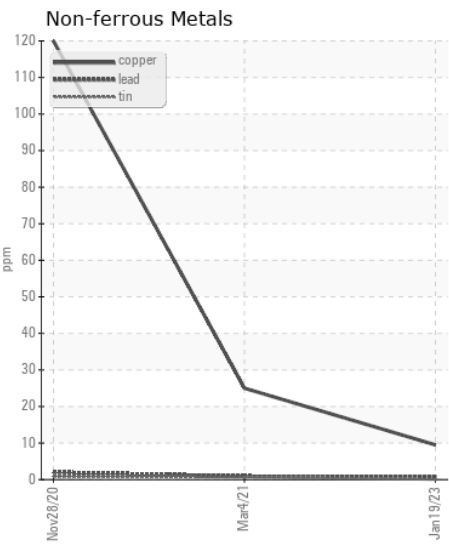
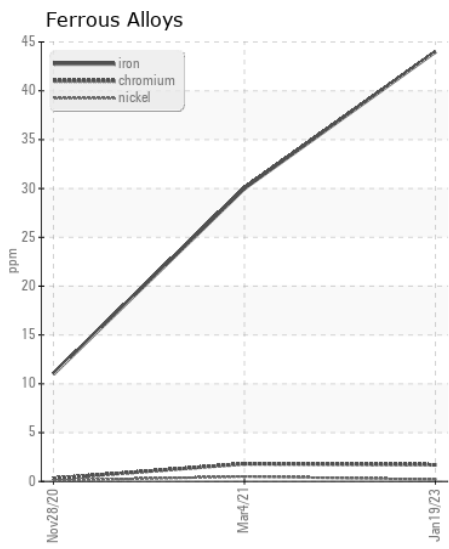
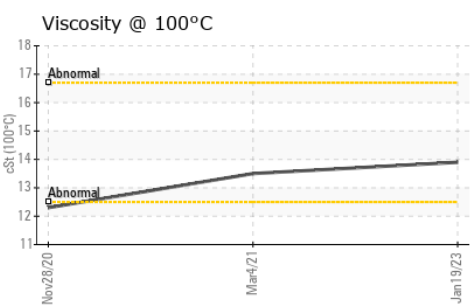
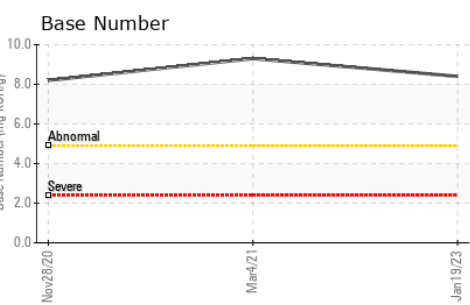
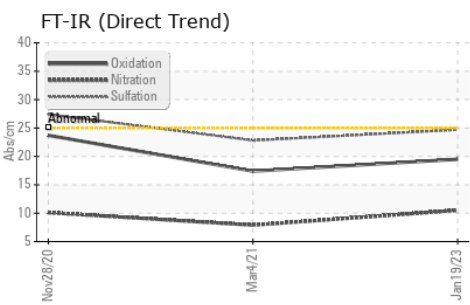
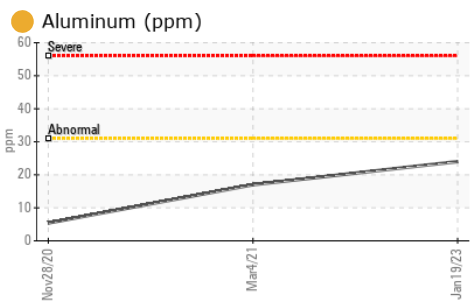
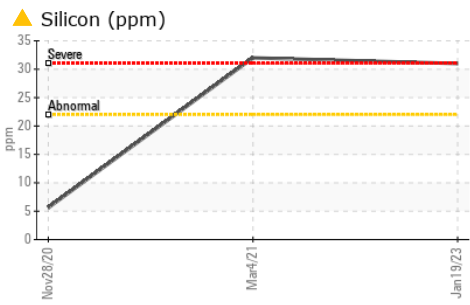
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>22	▲ 31	32	6
Potassium	ppm	ASTM D5185m	>20	0	2	0
Fuel		WC Method	>5	<1.0	<1.0	1.1
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.7	0.3	0.6
Nitration	Abs/cm	*ASTM D7624	>20	10.5	7.9	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.7	22.8	27.4
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	<1	3	1
Boron	ppm	ASTM D5185m		152	244	196
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		242	249	251
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		780	785	809
Calcium	ppm	ASTM D5185m		1458	1538	1446
Phosphorus	ppm	ASTM D5185m		737	903	890
Zinc	ppm	ASTM D5185m		917	1046	1108
Sulfur	ppm	ASTM D5185m		3260	2860	2557
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	17.4	23.7
Base Number (BN)	mg KOH/g	ASTM D2896		8.4	9.3	8.2
Visc @ 100°C	cSt	ASTM D445		13.9	13.5	12.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0138500 **Received** : 20 Jan 2023
Lab Number : 05744478 **Tested** : 23 Jan 2023
Unique Number : 10299077 **Diagnosed** : 23 Jan 2023 - Don Baldrige
Test Package : CONST (Additional Tests: TBN)

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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)