



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 85G 1FF085GXCLJ021919
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL (--- GAL)

RECOMMENDATION

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		JR0213218	JR0099891	JR0145380
Sample Date		Client Info		12 May 2024	20 Apr 2023	07 Sep 2022
Machine Age	hrs	Client Info		2651	2049	1458
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	15	19	12
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	5	0	3
Lead	ppm	ASTM D5185m	>26	<1	<1	0
Copper	ppm	ASTM D5185m	>26	0	▲ 264	<1
Tin	ppm	ASTM D5185m	>4	<1	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.

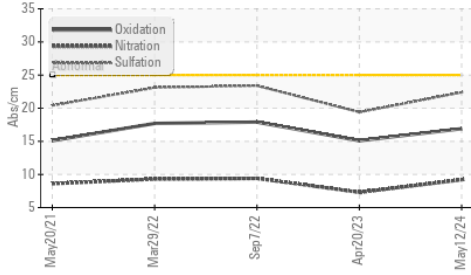
Silicon	ppm	ASTM D5185m	>22	12	11	11
Potassium	ppm	ASTM D5185m	>20	<1	3	0
Fuel		WC Method	>2.1	<1.0	0.9	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0.1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.2	7.3	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	19.4	23.4
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

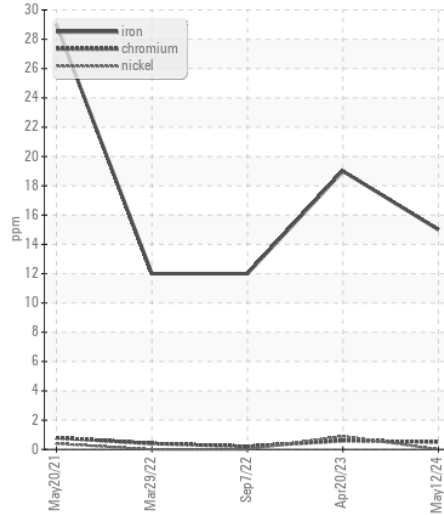
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>75	1	5	0
Boron	ppm	ASTM D5185m		218	257	237
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		243	244	241
Manganese	ppm	ASTM D5185m		<1	5	<1
Magnesium	ppm	ASTM D5185m		830	781	743
Calcium	ppm	ASTM D5185m		1676	1347	1347
Phosphorus	ppm	ASTM D5185m		953	857	804
Zinc	ppm	ASTM D5185m		1154	1050	1007
Sulfur	ppm	ASTM D5185m		3578	2835	2587
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	15.1	17.9
Base Number (BN)	mg KOH/g	ASTM D2896		8.4	8.3	8.6
Visc @ 100°C	cSt	ASTM D445		14.0	● 10.7	14.2

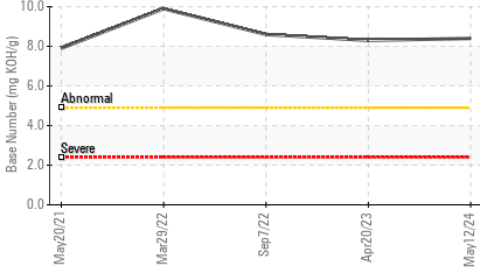
FT-IR (Direct Trend)



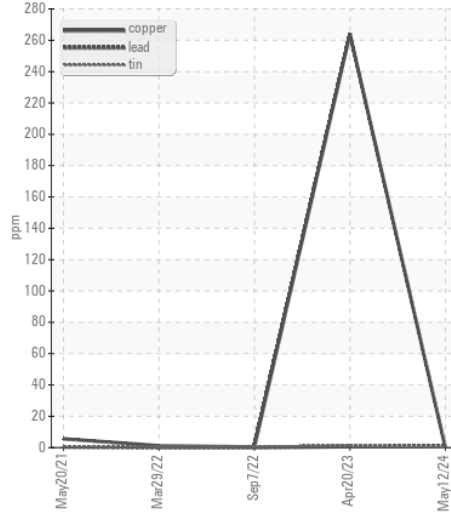
Ferrous Alloys



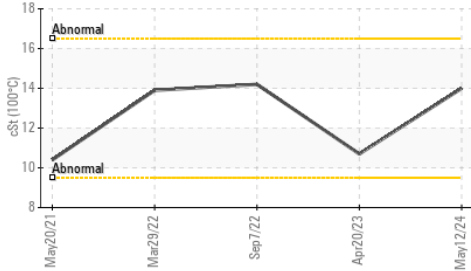
Base Number



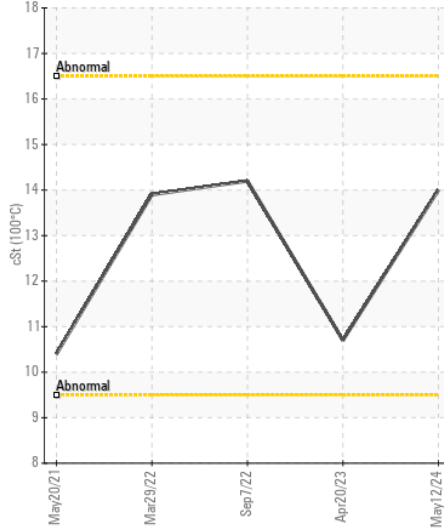
Non-ferrous Metals



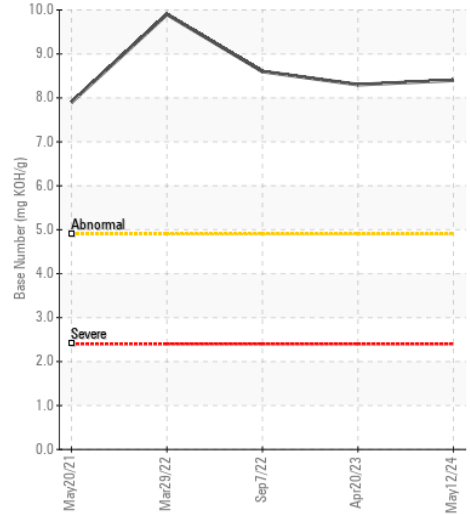
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0213218 **Received** : 13 May 2024
Lab Number : 06177010 **Tested** : 14 May 2024
Unique Number : 11023063 **Diagnosed** : 14 May 2024 - Wes Davis
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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