



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W67134]

Machine Id
JOHN DEERE 135G 1FF135GXVKF501242

Component
Diesel Engine

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W67134)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0215615	JR0142058	JR0134903
Sample Date		Client Info		28 May 2024	06 Sep 2022	07 Jul 2022
Machine Age	hrs	Client Info		5616	3892	3722
Oil Age	hrs	Client Info		4746	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	14	4	8
Chromium	ppm	ASTM D5185m	>11	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>31	10	2	5
Lead	ppm	ASTM D5185m	>26	0	0	<1
Copper	ppm	ASTM D5185m	>26	6	2	4
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	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.

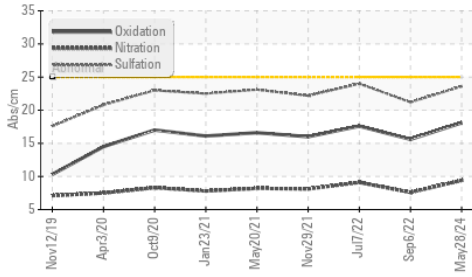
Silicon	ppm	ASTM D5185m	>22	11	8	8
Potassium	ppm	ASTM D5185m	>20	3	0	<1
Fuel	%	ASTM D3524	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.4	7.6	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	21.2	24.0
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

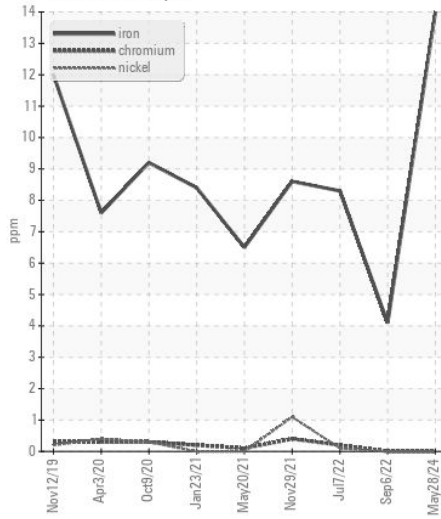
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	7	0	<1
Boron	ppm	ASTM D5185m		76	280	243
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		215	243	248
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		839	753	748
Calcium	ppm	ASTM D5185m		1386	1412	1449
Phosphorus	ppm	ASTM D5185m		929	831	827
Zinc	ppm	ASTM D5185m		1083	1017	1041
Sulfur	ppm	ASTM D5185m		3364	2766	3324
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	15.6	17.6
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.9	10.8	9.5
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	13.6	13.1

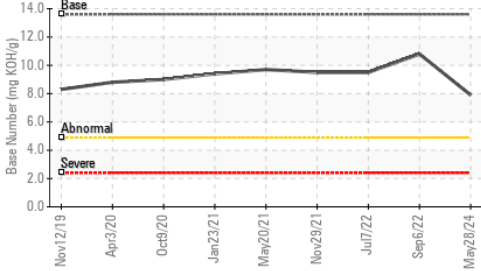
FT-IR (Direct Trend)



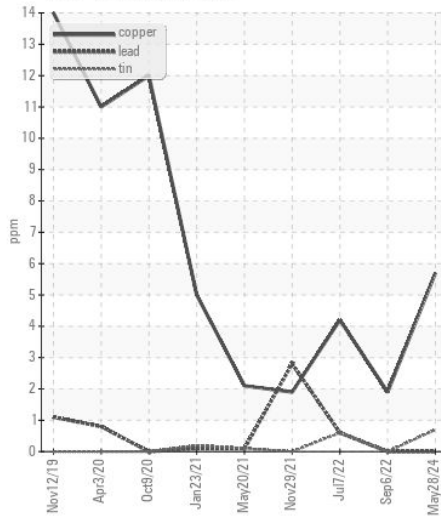
Ferrous Alloys



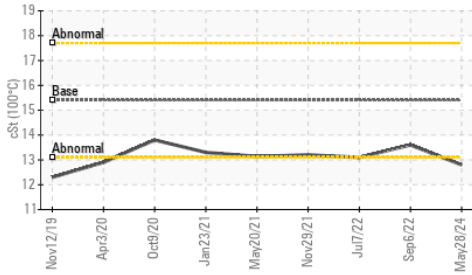
Base Number



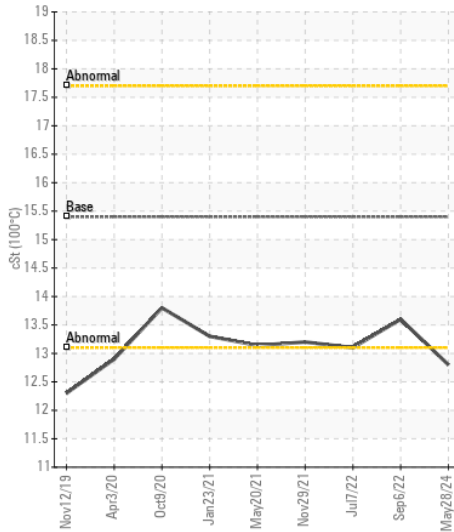
Non-ferrous Metals



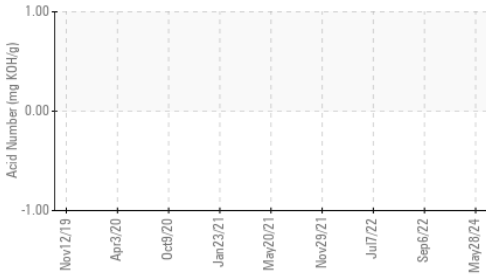
Viscosity @ 100°C



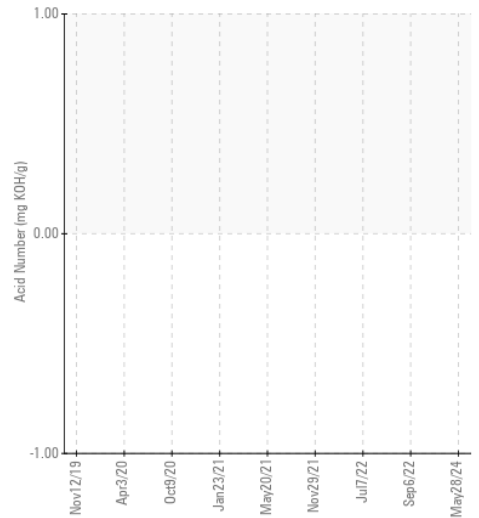
Viscosity @ 100°C



Acid Number



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0215615

Lab Number : 06195294

Unique Number : 11057417

Test Package : CONST (Additional Tests: FT-IR, FuelDilution, ICP, KV100, KV40, PQ, PrtCount, SCREEN, ~~Oil~~ ~~Fact~~ ~~Oil~~)

Received : 30 May 2024

Tested : 03 Jun 2024

Diagnosed : 03 Jun 2024 - Sean Felton

JRE - CHARLOTTE

9550 STATESVILLE ROAD

CHARLOTTE, NC

US 28269

CONTACT CHARLOTTE SHOP

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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)