CONST

James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[16W16119]
Machine Id
JOHN DEERE 333G 1T0333GMAPF434848
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (3 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. (Customer Sample Comment: 16W16119)

WEAR

The copper level has decreased, but is still abnormal. All other metal levels are typical for a new component breaking in.

CONTAMINATION

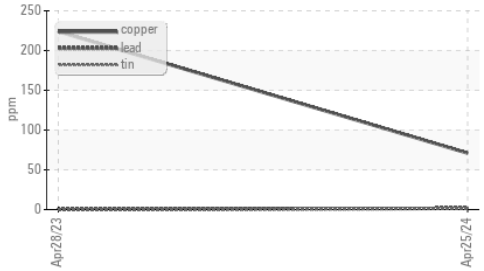
There is no indication of any contamination in the oil.

FLUID CONDITION

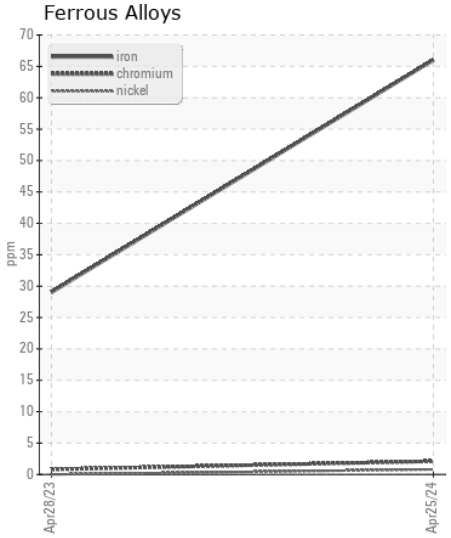
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0207129**	JR0153970	---
Sample Date		Client Info		**25 Apr 2024**	28 Apr 2023	---
Machine Age	hrs	Client Info		**965**	286	---
Oil Age	hrs	Client Info		**679**	286	---
Filter Age	hrs	Client Info		**679**	286	---
Oil Changed		Client Info		**Changed**	Changed	---
Filter Changed		Client Info		**Changed**	Changed	---
Sample Status				**ABNORMAL**	ABNORMAL	---
Iron	ppm	ASTM D5185m	>51	**66**	29	---
Chromium	ppm	ASTM D5185m	>11	**2**	<1	---
Nickel	ppm	ASTM D5185m	>5	**<1**	0	---
Titanium	ppm	ASTM D5185m		**<1**	<1	---
Silver	ppm	ASTM D5185m	>3	**0**	<1	---
Aluminum	ppm	ASTM D5185m	>31	**10**	6	---
Lead	ppm	ASTM D5185m	>26	**2**	0	---
Copper	ppm	ASTM D5185m	>26	▲ **71**	▲ 224	---
Tin	ppm	ASTM D5185m	>4	**1**	<1	---
Vanadium	ppm	ASTM D5185m		**<1**	0	---
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Silicon	ppm	ASTM D5185m	>22	**22**	▲ 53	---
Potassium	ppm	ASTM D5185m	>20	**3**	<1	---
Fuel		WC Method	>2.1	**<1.0**	<1.0	---
Water		WC Method	>0.21	**NEG**	NEG	---
Glycol		WC Method		**NEG**	NEG	---
Soot %	%	*ASTM D7844	>3	**0.8**	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	**12.6**	10.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**29.0**	26.1	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.21	**NEG**	NEG	---
Sodium	ppm	ASTM D5185m	>31	**4**	9	---
Boron	ppm	ASTM D5185m		**63**	201	---
Barium	ppm	ASTM D5185m		**3**	<1	---
Molybdenum	ppm	ASTM D5185m		**283**	256	---
Manganese	ppm	ASTM D5185m		**2**	2	---
Magnesium	ppm	ASTM D5185m		**959**	798	---
Calcium	ppm	ASTM D5185m		**1903**	1880	---
Phosphorus	ppm	ASTM D5185m		**1027**	891	---
Zinc	ppm	ASTM D5185m		**1254**	1141	---
Sulfur	ppm	ASTM D5185m		**2951**	3525	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	**27.7**	25.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	**8.1**	6.4	---
Visc @ 100°C	cSt	ASTM D445	15.4	**14.8**	13.1	---

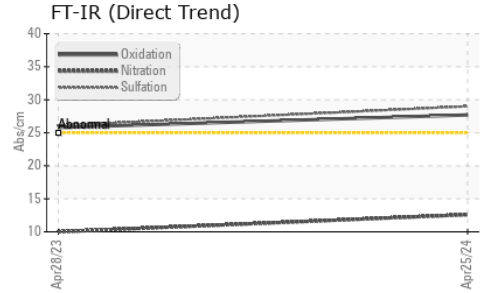
Non-ferrous Metals



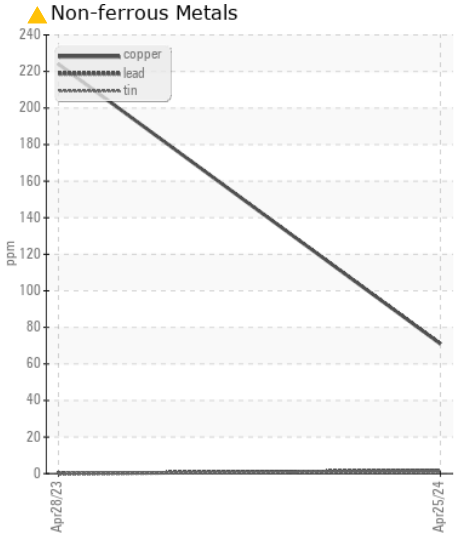
Ferrous Alloys



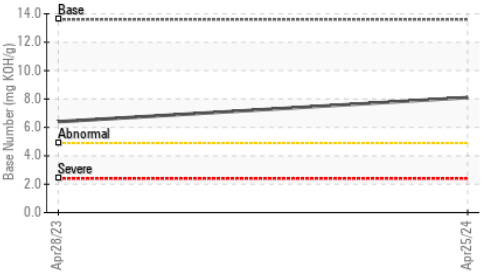
FT-IR (Direct Trend)



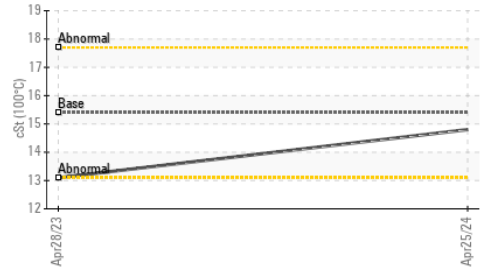
Non-ferrous Metals



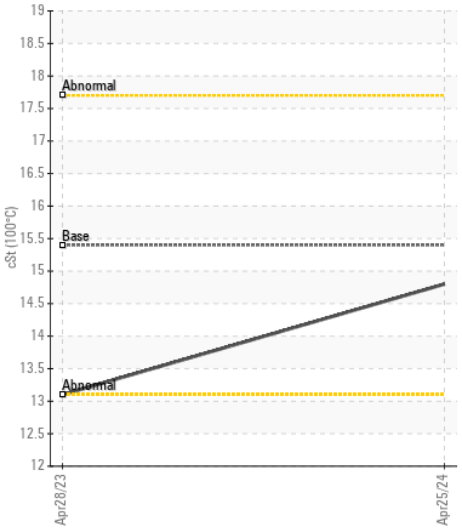
Base Number



Viscosity @ 100°C



Viscosity @ 100°C



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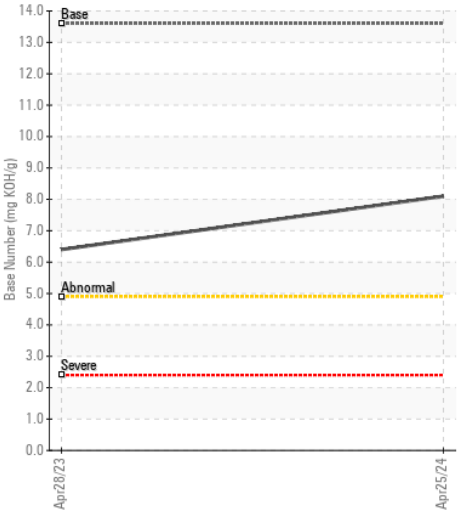

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0207129
Lab Number : 06161312
Unique Number : 10996735
Test Package : CONST (Additional Tests: TBN)

Received : 26 Apr 2024
Tested : 28 Apr 2024
Diagnosed : 29 Apr 2024 - Don Baldridge

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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