



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 1DW624PACRLX21735
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- 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		JR0203682	JR0203600	---
Sample Date		Client Info		13 Jun 2024	29 Apr 2024	---
Machine Age	hrs	Client Info		657	365	---
Oil Age	hrs	Client Info		0	365	---
Filter Age	hrs	Client Info		0	365	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	10	29	---
Chromium	ppm	ASTM D5185m	>11	0	<1	---
Nickel	ppm	ASTM D5185m	>5	2	4	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	2	5	---
Lead	ppm	ASTM D5185m	>26	0	4	---
Copper	ppm	ASTM D5185m	>26	37	▲ 264	---
Tin	ppm	ASTM D5185m	>4	<1	2	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

There is no indication of any contamination in the oil.

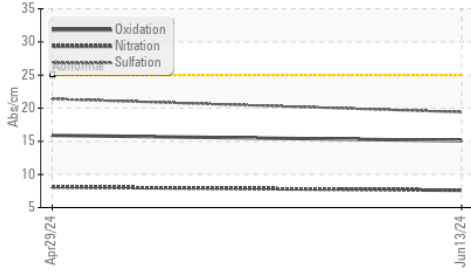
Silicon	ppm	ASTM D5185m	>22	5	11	---
Potassium	ppm	ASTM D5185m	>20	3	3	---
Fuel		WC Method	>2.1	<1.0	0.2	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	7.6	8.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	21.4	---
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	---

FLUID CONDITION

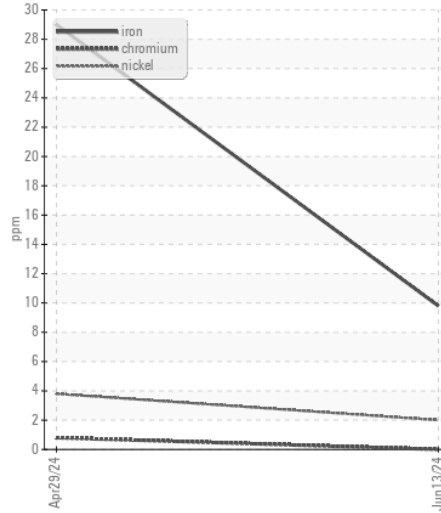
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>158	4	6	---
Boron	ppm	ASTM D5185m	250	77	266	---
Barium	ppm	ASTM D5185m	10	0	4	---
Molybdenum	ppm	ASTM D5185m	100	74	260	---
Manganese	ppm	ASTM D5185m		1	5	---
Magnesium	ppm	ASTM D5185m	450	448	857	---
Calcium	ppm	ASTM D5185m	3000	1649	1548	---
Phosphorus	ppm	ASTM D5185m	1150	1059	972	---
Zinc	ppm	ASTM D5185m	1350	1216	1120	---
Sulfur	ppm	ASTM D5185m	4250	3715	3631	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	15.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.3	9.0	---
Visc @ 100°C	cSt	ASTM D445	14.4	12.9	● 9.8	---

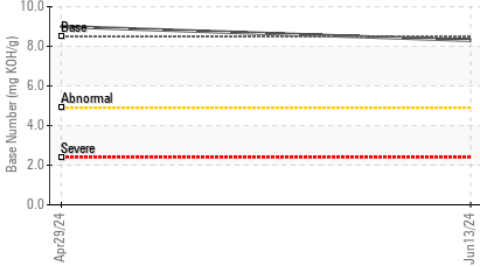
FT-IR (Direct Trend)



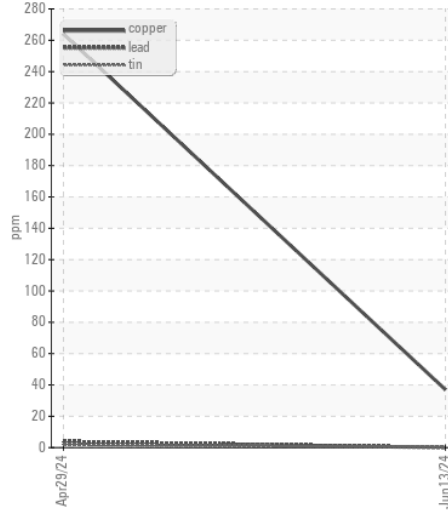
Ferrous Alloys



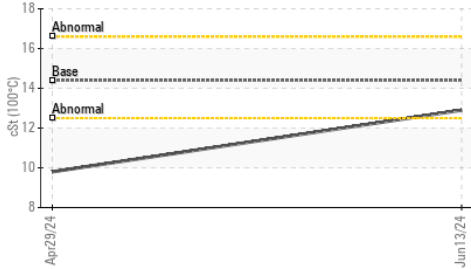
Base Number



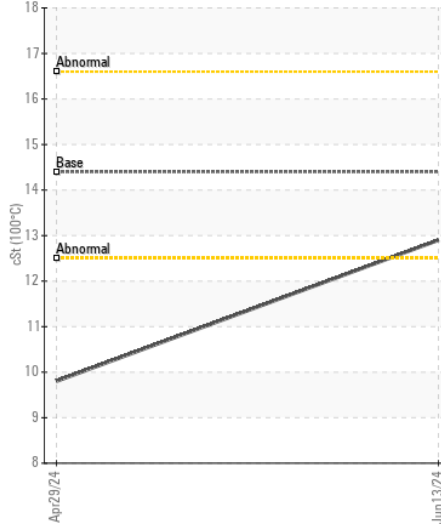
Non-ferrous Metals



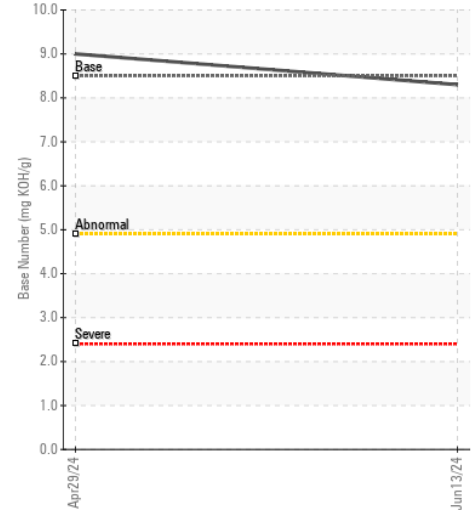
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0203682 **Received** : 17 Jun 2024
Lab Number : 06212859 **Tested** : 19 Jun 2024
Unique Number : 11085723 **Diagnosed** : 19 Jun 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

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 US 28658
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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)