



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 350P 1FF350PAEPF000690
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0223177	JR0197718	---
Sample Date		Client Info		08 Jul 2024	27 Dec 2023	---
Machine Age	hrs	Client Info		992	499	---
Oil Age	hrs	Client Info		0	499	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	ATTENTION	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	36	43	---
Chromium	ppm	ASTM D5185m	>11	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	16	6	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	<1	<1	---
Aluminum	ppm	ASTM D5185m	>31	4	6	---
Lead	ppm	ASTM D5185m	>26	1	3	---
Copper	ppm	ASTM D5185m	>26	21	36	---
Tin	ppm	ASTM D5185m	>4	0	3	---
Vanadium	ppm	ASTM D5185m		0	<1	---
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.

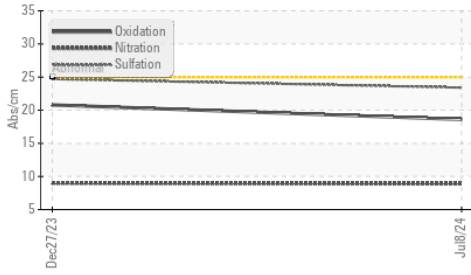
Silicon	ppm	ASTM D5185m	>22	9	13	---
Potassium	ppm	ASTM D5185m	>20	2	7	---
Fuel		WC Method	>2.1	<1.0	0.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.3	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	8.9	9.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	24.7	---
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

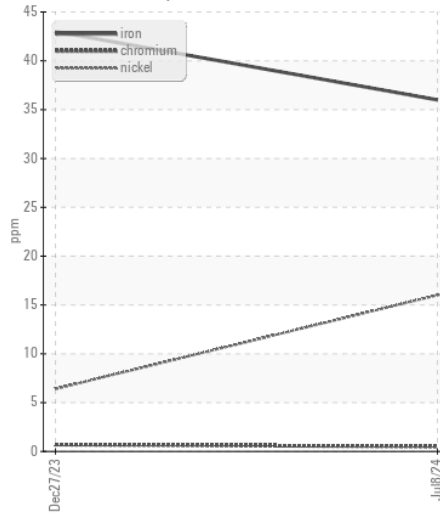
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	3	8	---
Boron	ppm	ASTM D5185m		158	157	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		252	234	---
Manganese	ppm	ASTM D5185m		1	2	---
Magnesium	ppm	ASTM D5185m		848	806	---
Calcium	ppm	ASTM D5185m		1580	1393	---
Phosphorus	ppm	ASTM D5185m		883	846	---
Zinc	ppm	ASTM D5185m		1085	1047	---
Sulfur	ppm	ASTM D5185m		3242	2676	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	20.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.9	8.2	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	11.3	---

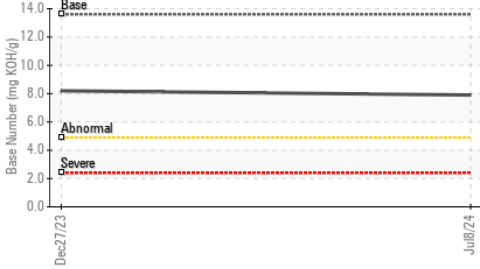
FT-IR (Direct Trend)



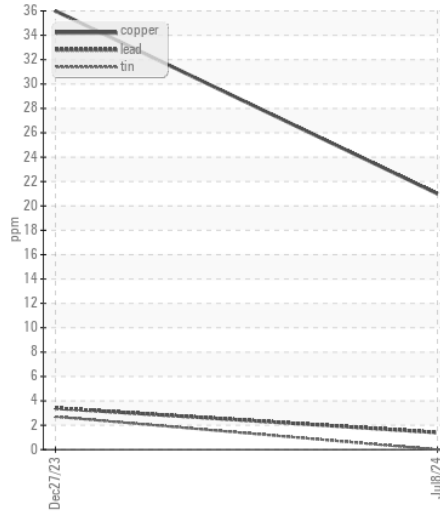
Ferrous Alloys



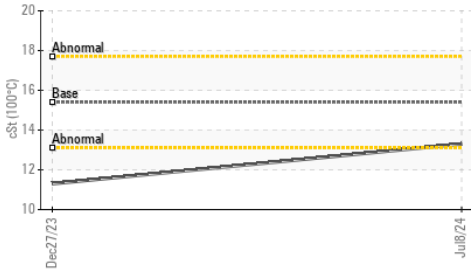
Base Number



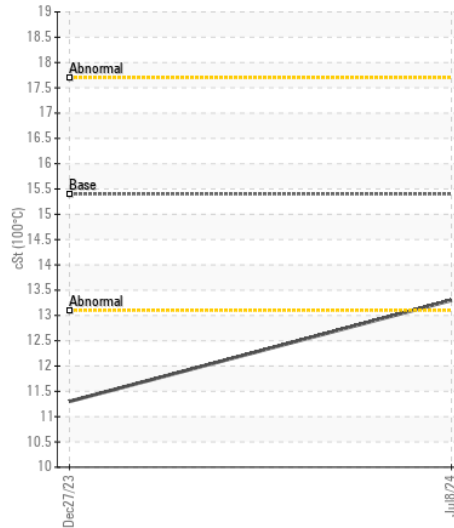
Non-ferrous Metals



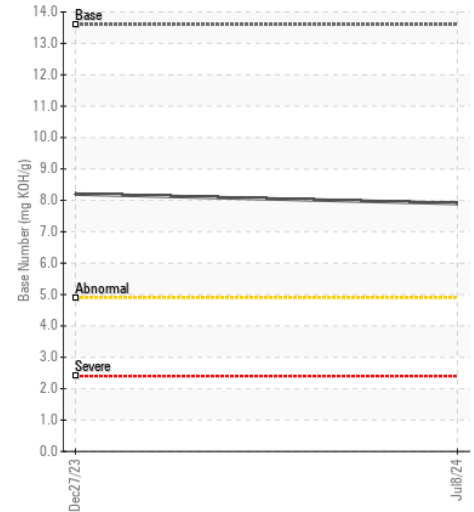
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0223177 **Received** : 09 Jul 2024
Lab Number : 06231277 **Tested** : 10 Jul 2024
Unique Number : 11114770 **Diagnosed** : 10 Jul 2024 - Wes Davis
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)