



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[16W16193]
 Machine Id
JOHN DEERE 700K 1T0700KXCKF368150
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (26 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: 16W16193)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0207169	JR0196475	JR0185746
Sample Date		Client Info		17 May 2024	16 Feb 2024	10 Nov 2023
Machine Age	hrs	Client Info		6567	6004	5562
Oil Age	hrs	Client Info		563	442	497
Filter Age	hrs	Client Info		563	442	497
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	12	14	12
Chromium	ppm	ASTM D5185m	>11	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	2	4	4
Lead	ppm	ASTM D5185m	>26	0	<1	0
Copper	ppm	ASTM D5185m	>26	8	5	8
Tin	ppm	ASTM D5185m	>4	0	<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.

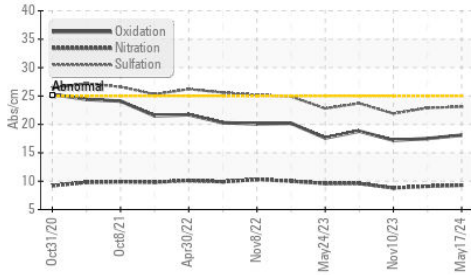
Silicon	ppm	ASTM D5185m	>22	8	7	7
Potassium	ppm	ASTM D5185m	>20	0	2	1
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.3	9.1	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	22.9	21.9
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

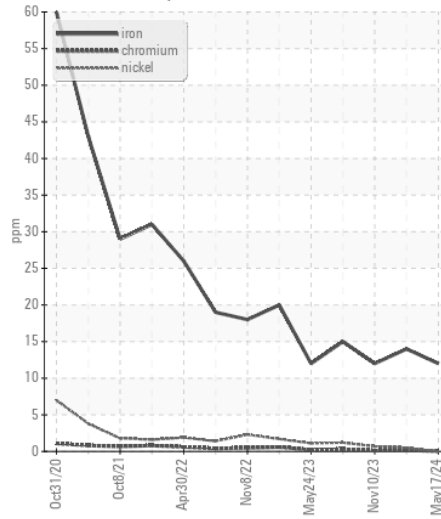
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	2	3	2
Boron	ppm	ASTM D5185m		231	200	193
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		273	270	257
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		886	908	876
Calcium	ppm	ASTM D5185m		1599	1479	1412
Phosphorus	ppm	ASTM D5185m		951	936	905
Zinc	ppm	ASTM D5185m		1180	1184	1132
Sulfur	ppm	ASTM D5185m		3361	3025	2844
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	17.5	17.2
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.5	8.6	6.7
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.1	14.2

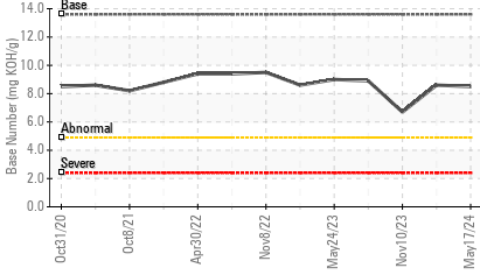
FT-IR (Direct Trend)



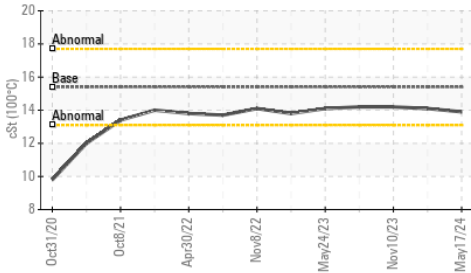
Ferrous Alloys



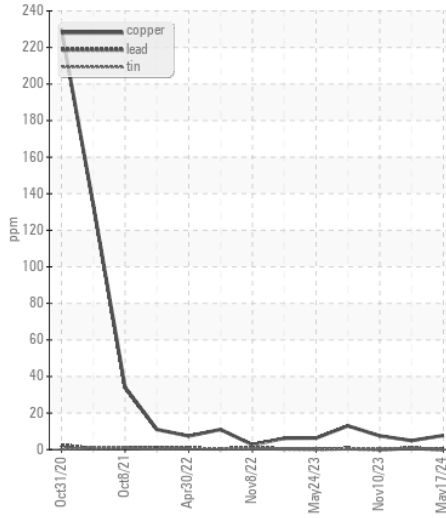
Base Number



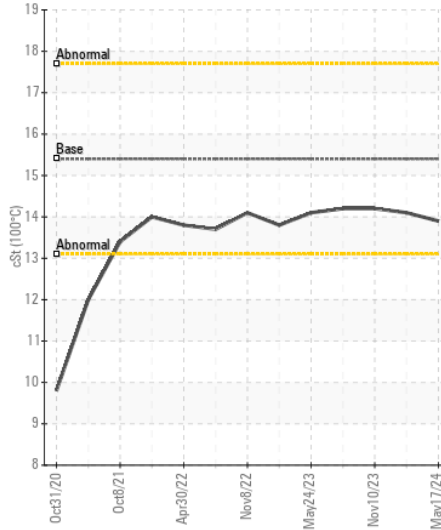
Viscosity @ 100°C



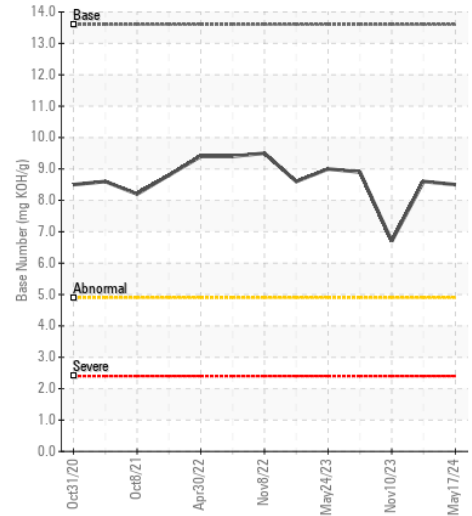
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0207169 **Received** : 22 May 2024
Lab Number : 06187465 **Tested** : 23 May 2024
Unique Number : 11044217 **Diagnosed** : 24 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: TBN)

JRE - CASTLE HAYNE
 113 CROWATAN ROAD
 CASTLE HAYNE, NC
 US 28429-5819

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: WILMINGTON SHOP
 todd.simmmons@jamesriverequipment.com; canastasio@wearcheck.com; canastasio@we

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (910)675-9211

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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