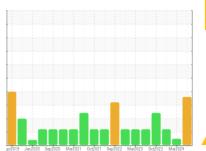


OIL ANALYSIS REPORT

Sample Rating Trend









[W8895] **JOHN DEERE 824K 1DW824KXVJF687635**

Diesel Engine

JOHN DEERE ENGINE OIL

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: W8895)

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Light fuel dilution occurring.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

PLUS 50 II 15W40	(8 GAL)	ipr2019 Jan20	020 Sep 2020 Mar 2021 0 c	t2021 Sep2022 Mar2023 Oct2023	Mar2024	
SAMPLE INFORI	· · · · ·	method	limit/base	current	history1	history2
	VIATION		IIIIII/Dase			
Sample Number		Client Info		JR0196797	JR0197088	JR0008673
Sample Date		Client Info		14 May 2024	27 Mar 2024	19 Jan 2024
Machine Age	hrs	Client Info		10492	10251	9881
Oil Age	hrs	Client Info		611	250	471
Oil Changed Sample Status		Client Info		Changed ABNORMAL	Not Changd NORMAL	Changed ATTENTION
					NORIVIAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	18	7	10
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	5	7
Lead	ppm	ASTM D5185m	>40	3	1	3
Copper	ppm	ASTM D5185m	>330	7	4	7
Tin	ppm	ASTM D5185m	>15	2	<1	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		141	207	140
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		253	235	222
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		831	786	845
Calcium	ppm	ASTM D5185m		1386	1338	1375
Phosphorus	ppm	ASTM D5185m		802	870	676
Zinc	ppm	ASTM D5185m		975	1029	892
Sulfur	ppm	ASTM D5185m		3346	3287	2875
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	7	6
Sodium	ppm	ASTM D5185m		<u> </u>	54	38
Potassium	ppm	ASTM D5185m	>20	46	20	10
Fuel	%	ASTM D3524	>5	4.4	3.1	△ 3.5
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.2	0.2
N !! t t!	A I. /	*AOTAL DECC	00	40.4	0.0	0.0

10.1

23.4

19.7

7.3

current

limit/base

8.3

20.9

15.4

8.9

history1

Nitration

Sulfation

Oxidation

FLUID DEGRADATION

Base Number (BN) mg KOH/g ASTM D2896 13.6

Abs/cm *ASTM D7624 >20

Abs/.1mm *ASTM D7415 > 30

Abs/.1mm *ASTM D7414 >25

method

history2

8.8

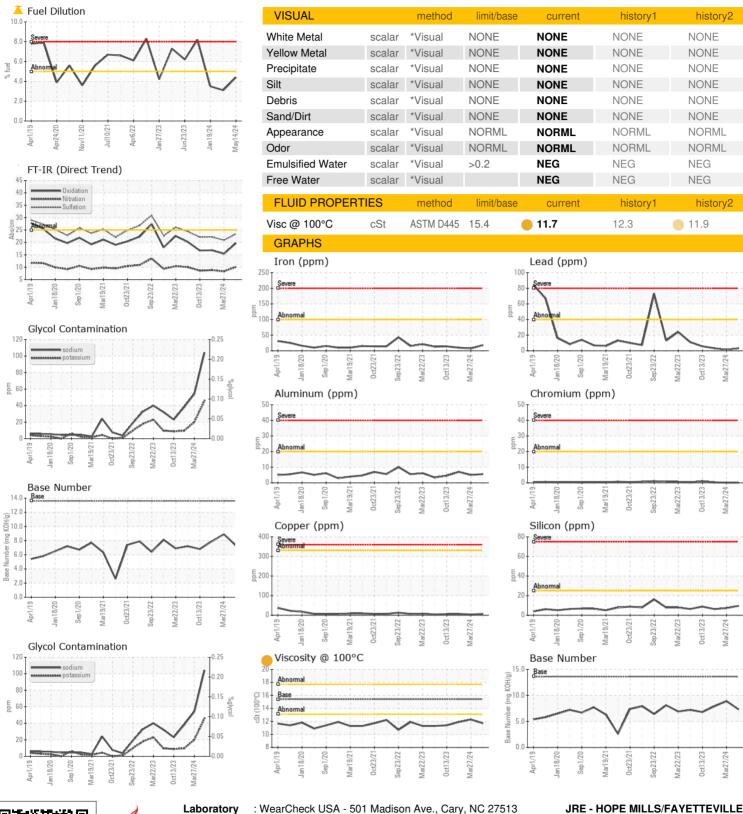
22.2

16.8

7.9



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: JR0196797 Lab Number : 06183630 Unique Number : 11034956

Received : 17 May 2024

Tested : 28 May 2024 : 28 May 2024 - Jonathan Hester Diagnosed

5039 HWY 301 SOUTH HOPE MILLS, NC US 28348

Test Package : MOBCE (Additional Tests: FUELDILUTION, Glycol, PercentFuel, TBNCpntact: FAYETTEVILLE SHOP stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.com

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

T:

F: