WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



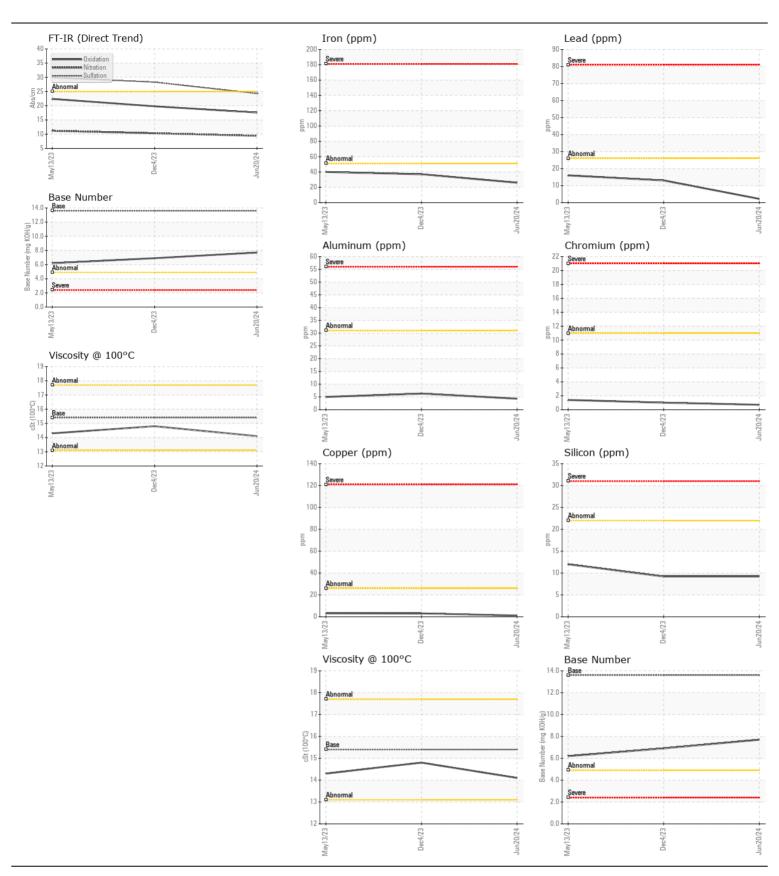
[W8904]

JOHN DEERE 624K C137436 (S/N 1DW624KZJCD642523)

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (22 GAL)

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (22 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0196976	JR0183155	,
Resample at the next service interval to monitor. (Customer Sample Comment: W8904)	Sample Date		Client Info		20 Jun 2024	04 Dec 2023	13 May 2023
	Machine Age	hrs	Client Info		14187	13166	11693
	Oil Age	hrs	Client Info		1021	1473	963
	Filter Age	hrs	Client Info		1021	0	963
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m		26	37	40
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	1	1
	Nickel	ppm	ASTM D5185m	>5	0	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	4	6	5
	Lead	ppm	ASTM D5185m	>26	2	13	16
	Copper	ppm	ASTM D5185m	>26	1	3	3
	Tin	ppm	ASTM D5185m	>4	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	9	9	12
CONTAMINATION	Potassium	ppm	ASTM D5185m		<1	1	2
There is no indication of any contamination in the oil.	Fuel	pp	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	, 0.2.	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1	2.2	1.6
	Nitration	Abs/cm	*ASTM D7624	>20	9.4	10.3	11.2
	Sulfation	Abs/.1mm	*ASTM D7415		24.3	28.3	29.9
	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
ELUID CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	2	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		150	76	46
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		245	255	238
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		813	907	819
	Calcium	ppm	ASTM D5185m		1466	1553	1383
	Phosphorus	ppm	ASTM D5185m		880	869	751
	Zinc	ppm	ASTM D5185m		1063	1083	972
	Sulfur	ppm	ASTM D5185m	05	3486	3214	4350
	Oxidation	Abs/.1mm	*ASTM D7414		17.6	19.8	22.4
	Base Number (BN)				7.7	6.9	6.2
	Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.8	14.3







Laboratory Sample No. Unique Number: 11096216

Lab Number : 06218019

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0196976

Received **Tested** Diagnosed

: 24 Jun 2024 : 25 Jun 2024 : 25 Jun 2024 - Don Baldridge

JRE - HOPE MILLS/FAYETTEVILLE 5039 HWY 301 SOUTH

HOPE MILLS, NC US 28348

Test Package: MOBCE (Additional Tests: TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: FAYETTEVILLE SHOP stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.com T:

* - 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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