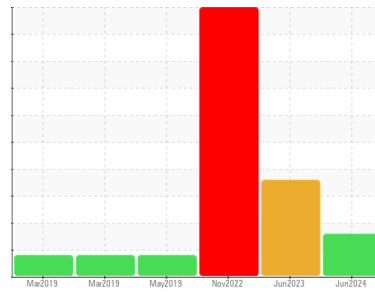


OIL ANALYSIS REPORT



Area
[W11544]
 Machine Id
JOHN DEERE 844K 1DW844KCAJF690205
 Component
Diesel Engine
 Fluid
{not provided} (--- QTS)

Sample Rating Trend



GLYCOL



DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Fuel content negligible. Test for glycol is negative.

▲ Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		JR06208374	JR0170514	JR0126244
Sample Date	Client Info		12 Jun 2024	23 Jun 2023	04 Nov 2022
Machine Age	hrs	Client Info	0	8527	7603
Oil Age	hrs	Client Info	0	7603	0
Oil Changed	Client Info		N/A	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	SEVERE

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.21	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >51	21	21	▲ 71
Chromium	ppm	ASTM D5185m >11	<1	<1	1
Nickel	ppm	ASTM D5185m >5	<1	<1	<1
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m >3	0	<1	0
Aluminum	ppm	ASTM D5185m >31	10	● 18	● 18
Lead	ppm	ASTM D5185m >26	15	10	▲ 94
Copper	ppm	ASTM D5185m >26	6	11	▲ 29
Tin	ppm	ASTM D5185m >4	1	3	4
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	30	139	13
Barium	ppm	ASTM D5185m	0	<1	0
Molybdenum	ppm	ASTM D5185m	170	246	235
Manganese	ppm	ASTM D5185m	0	2	2
Magnesium	ppm	ASTM D5185m	638	856	734
Calcium	ppm	ASTM D5185m	1358	1413	1263
Phosphorus	ppm	ASTM D5185m	848	786	672
Zinc	ppm	ASTM D5185m	996	997	892
Sulfur	ppm	ASTM D5185m	2984	3363	2835

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >22	16	▲ 23	▲ 30
Sodium	ppm	ASTM D5185m >31	● 65	14	24
Potassium	ppm	ASTM D5185m >20	10	8	12
Fuel	%	ASTM D3524 >8.0	7.1	▲ 6.2	▲ 9.4
Glycol	%	*ASTM D2982	0.0	NEG	NEG

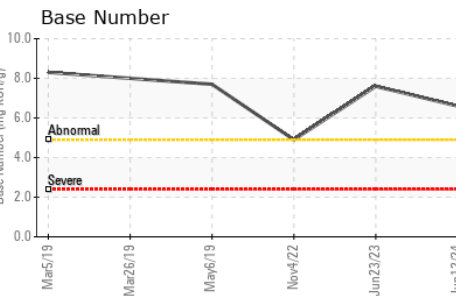
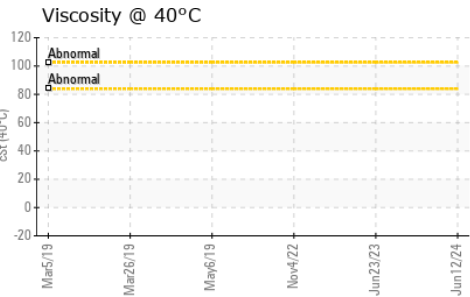
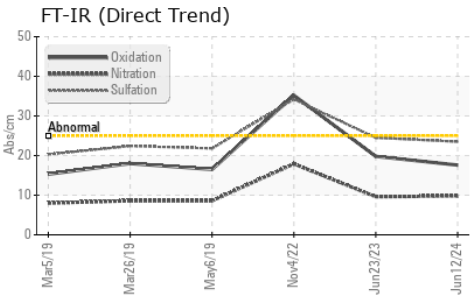
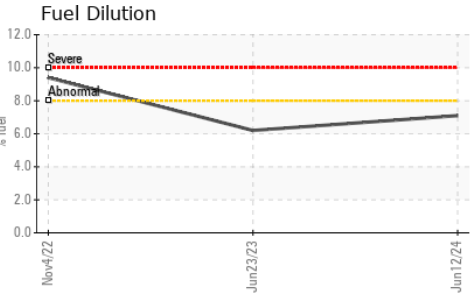
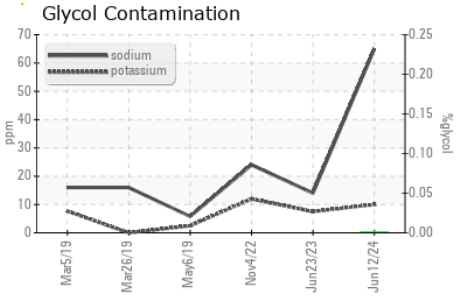
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.4	0.3	0.8
Nitration	Abs/cm	*ASTM D7624 >20	9.8	9.6	17.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.5	24.5	34.2

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	17.6	19.8	35.2
Base Number (BN)	mg KOH/g	ASTM D2896	6.6	7.6	4.9

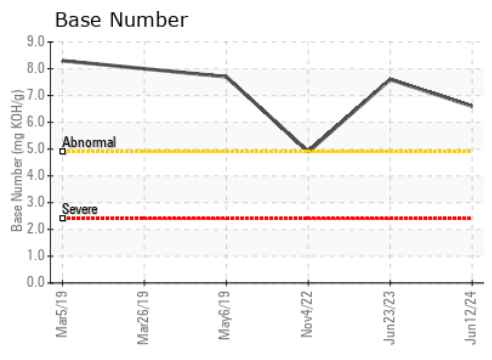
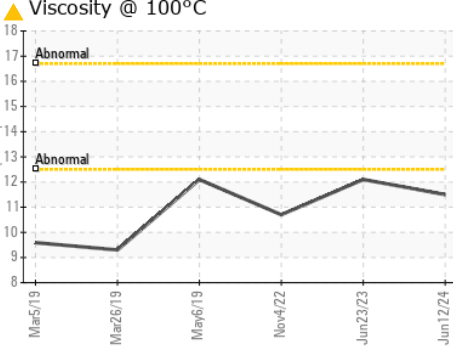
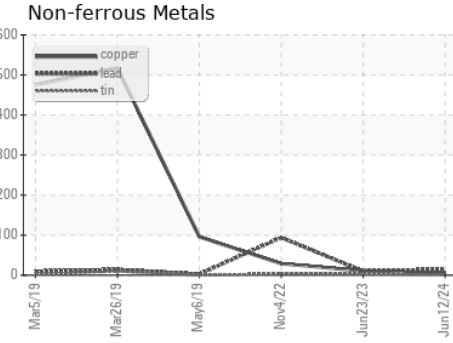
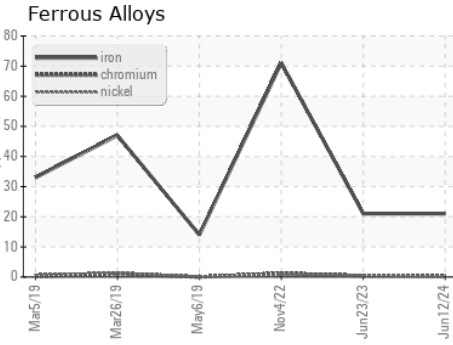
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	▲ 11.5	▲ 12.1	▲ 10.7

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR06208374 **Received** : 13 Jun 2024
Lab Number : 06208374 **Tested** : 19 Jun 2024
Unique Number : 11075835 **Diagnosed** : 19 Jun 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: Glycol, KV40, PercentFuel, TBN)

JRE - SALEM
 3902 W. MAIN STREET
 SALEM, VA
 US 24153
 Contact: BUTCH GOAD
 bgoad@jrenet.com

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)