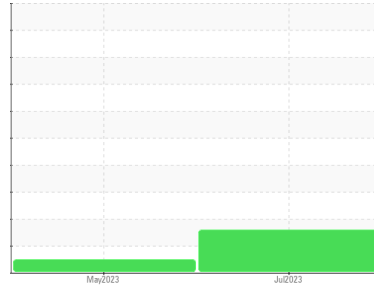




OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Machine Id
JOHN DEERE PE4045N015964

Component
Diesel Engine
Fluid
HENESSEY (--- GAL)

DIAGNOSIS

▲ Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is no indication of any contamination in the oil.

▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	WC0800713	WC0800712	---	
Sample Date	Client Info	27 Jul 2023	25 May 2023	---	
Machine Age	hrs	Client Info	2500	0	---
Oil Age	hrs	Client Info	1000	0	---
Oil Changed	Client Info	Changed	Not Changd	---	
Sample Status		ABNORMAL	NORMAL	---	

CONTAMINATION

method	limit/base	current	history1	history2	
Fuel	WC Method	>2.1	<1.0	<1.0	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>51	40	32	---
Chromium	ppm	ASTM D5185m	>11	1	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	4	2	---
Lead	ppm	ASTM D5185m	>26	5	2	---
Copper	ppm	ASTM D5185m	>26	3	3	---
Tin	ppm	ASTM D5185m	>4	<1	1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
Cadmium	ppm	ASTM D5185m		<1	0	---

ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m		0	3	---
Barium	ppm	ASTM D5185m		4	0	---
Molybdenum	ppm	ASTM D5185m		134	134	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		16	17	---
Calcium	ppm	ASTM D5185m		4261	4588	---
Phosphorus	ppm	ASTM D5185m		1197	1176	---
Zinc	ppm	ASTM D5185m		1335	1329	---
Sulfur	ppm	ASTM D5185m		4595	5694	---

CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>22	10	12	---
Sodium	ppm	ASTM D5185m	>31	2	2	---
Potassium	ppm	ASTM D5185m	>20	5	3	---

INFRA-RED

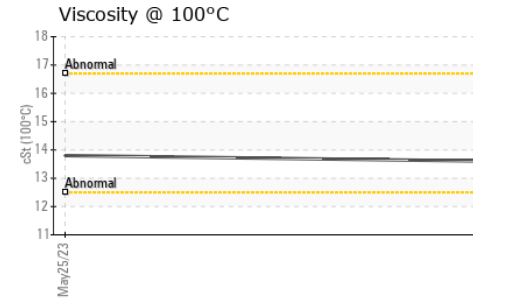
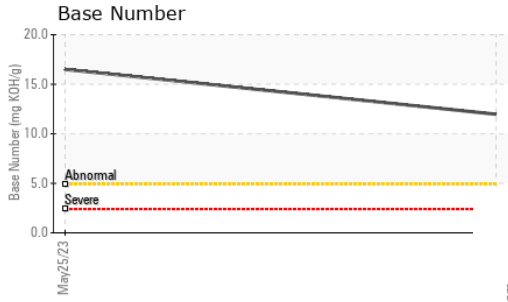
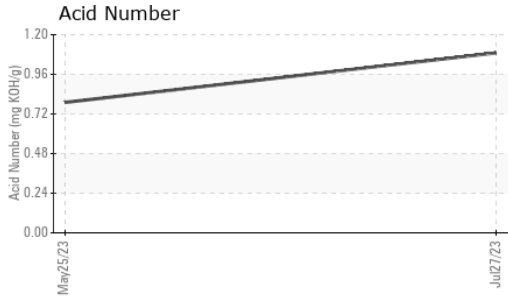
method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	1	0.8	---
Nitration	Abs/cm	*ASTM D7624	>20	9.8	9.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	▲ 36.0	37.8	---

FLUID DEGRADATION

method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	▲ 34.6	37.3	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.09	0.79	---
Base Number (BN)	mg KOH/g	ASTM D2896		11.97	16.50	---



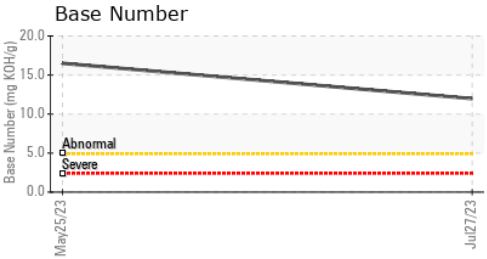
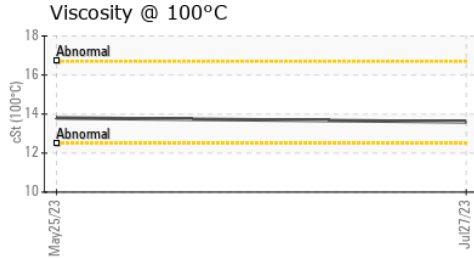
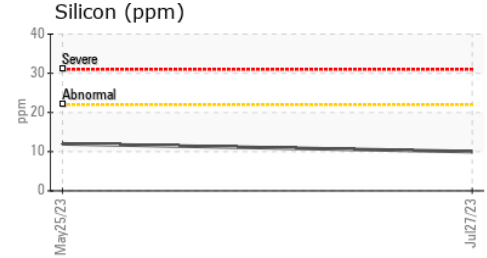
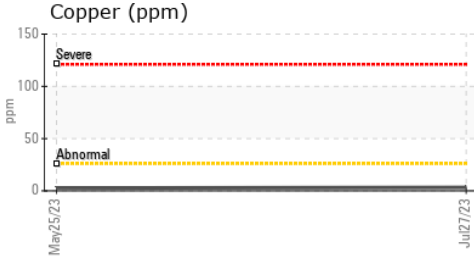
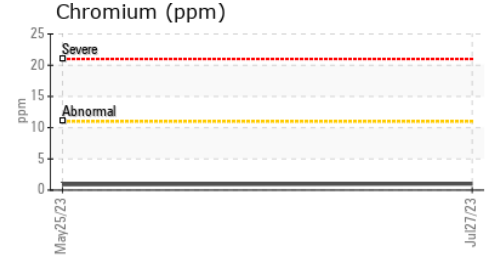
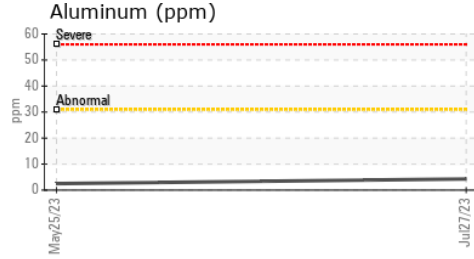
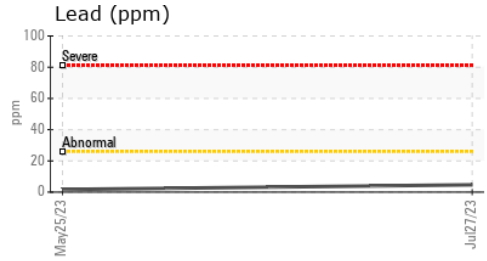
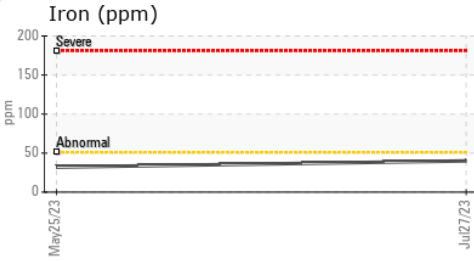
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.21	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.6	13.8	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0800713 **Received** : 17 Oct 2023
Lab Number : 05982013 **Diagnosed** : 19 Oct 2023
Unique Number : 10699308 **Diagnostician** : Sean Felton
Test Package : MOB 2

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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)