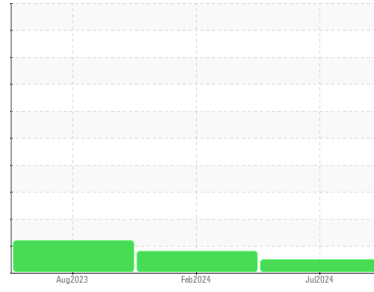




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

JOHN DEERE 844P 06735

Component

Diesel Engine

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- 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 condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		MT0006120	MT0005806	MT0005795
Sample Date	Client Info		10 Jul 2024	09 Feb 2024	25 Aug 2023
Machine Age	hrs	Client Info	2566	1521	343
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Changed	Changed	Not Changed
Sample Status			NORMAL	MARGINAL	ABNORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>51	14	17	29
Chromium	ppm	ASTM D5185m	>11	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	4	5	6
Lead	ppm	ASTM D5185m	>26	3	3	11
Copper	ppm	ASTM D5185m	>26	6	▲ 41	▲ 380
Tin	ppm	ASTM D5185m	>4	<1	2	8
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		153	194	272
Barium	ppm	ASTM D5185m		<1	12	<1
Molybdenum	ppm	ASTM D5185m		240	255	262
Manganese	ppm	ASTM D5185m		<1	<1	13
Magnesium	ppm	ASTM D5185m		800	764	811
Calcium	ppm	ASTM D5185m		1443	1264	1435
Phosphorus	ppm	ASTM D5185m		871	739	900
Zinc	ppm	ASTM D5185m		985	1028	1062
Sulfur	ppm	ASTM D5185m		3336	2849	3508

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>22	5	7	15
Sodium	ppm	ASTM D5185m	>31	5	3	13
Potassium	ppm	ASTM D5185m	>20	<1	3	4
Fuel	%	ASTM D3524	>2.1	<1.0	<1.0	0.3

INFRA-RED

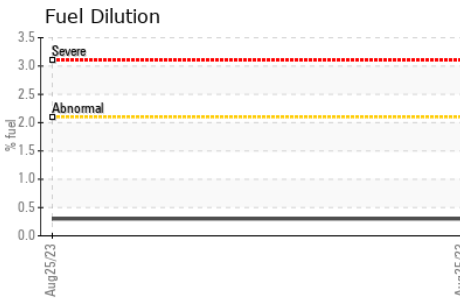
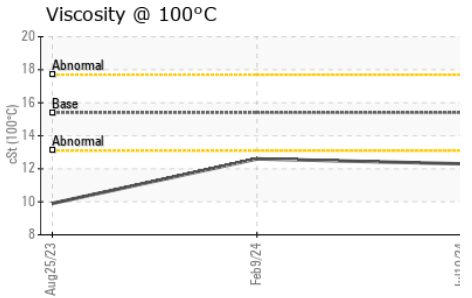
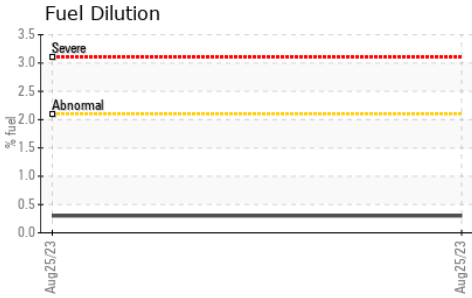
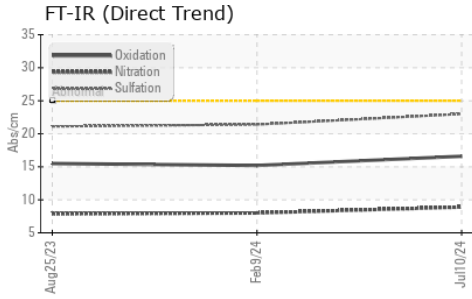
	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.9	8.0	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	21.4	21.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	15.2	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.2	8.1	9.3



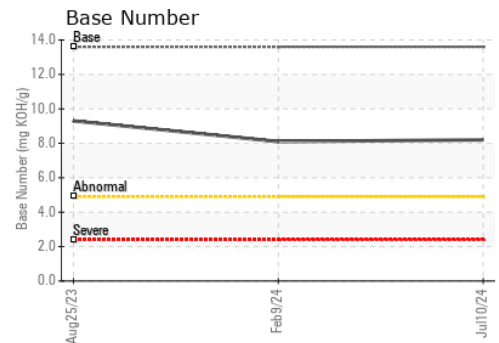
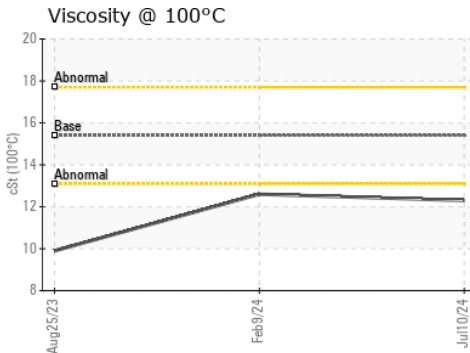
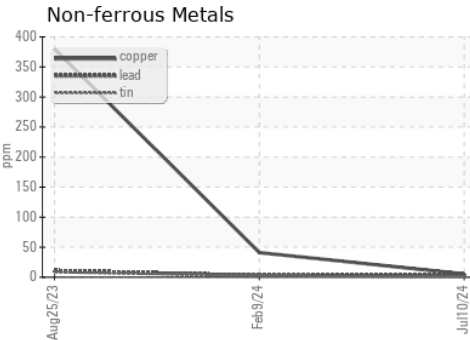
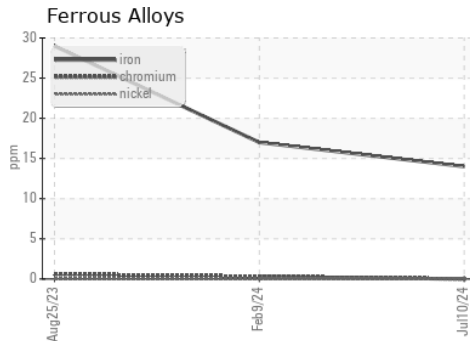
OIL ANALYSIS REPORT



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	15.4	12.3	12.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MT0006120 **Received** : 16 Jul 2024
Lab Number : 06237560 **Tested** : 17 Jul 2024
Unique Number : 11126394 **Diagnosed** : 18 Jul 2024 - Sean Felton
Test Package : CONST (Additional Tests: FuelDilution, TBN)

MURPHY TRACTOR - CAMBRIDGE
 60611 HULSE DRIVE
 CAMBRIDGE, OH
 US 43725
 Contact: DUSTIN DAILEY
 DDAILEY@MURPHYTRACTOR.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)

F: (740)439-2325