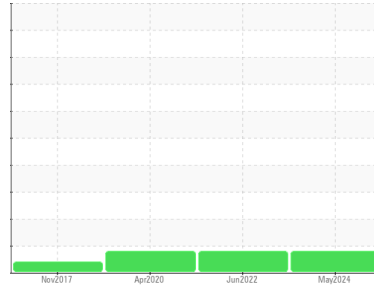


OIL ANALYSIS REPORT



Machine Id
JOHN DEERE 8500 11 0194 (S/N TO850C900594)
Component
Hydraulic System
Fluid
DIESEL ENGINE OIL SAE 10W30 (80 LTR)

Sample Rating Trend



WEAR



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

Iron ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. All other component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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			PC0062095	PC0030515	PC0013027
Sample Date	Client Info			15 May 2024	10 Jun 2022	30 Apr 2020
Machine Age	hrs	Client Info		13968	1338	13000
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			Not Chngd	Not Chngd	Not Chngd
Sample Status				ATTENTION	ATTENTION	ATTENTION

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.075	NEG	NEG	NEG

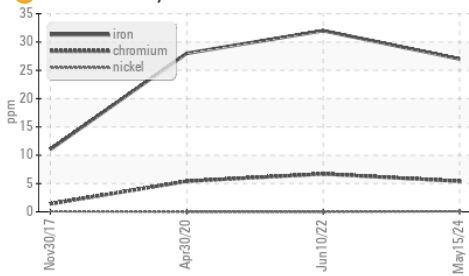
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>50	0	0	16
Iron	ppm	ASTM D5185(m)	>23	27	32	28
Chromium	ppm	ASTM D5185(m)	>9	5	7	5
Nickel	ppm	ASTM D5185(m)	>5	<1	0	0
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	3	3	3
Lead	ppm	ASTM D5185(m)	>28	0	<1	0
Copper	ppm	ASTM D5185(m)	>51	3	4	3
Tin	ppm	ASTM D5185(m)	>5	0	<1	0
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	159	106	103
Barium	ppm	ASTM D5185(m)	10	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	59	36	29
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	134	131	105
Calcium	ppm	ASTM D5185(m)	3000	2335	2934	2980
Phosphorus	ppm	ASTM D5185(m)	1150	1047	1057	1083
Zinc	ppm	ASTM D5185(m)	1350	1190	1211	1237
Sulfur	ppm	ASTM D5185(m)	4250	3189	3325	3327
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

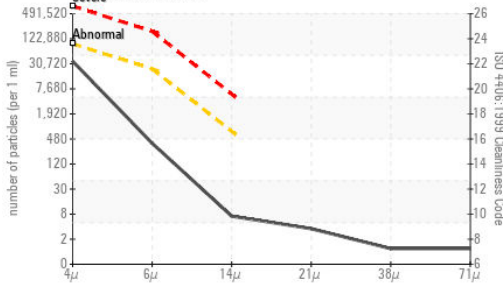
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>31	12	14	14
Sodium	ppm	ASTM D5185(m)		4	4	2
Potassium	ppm	ASTM D5185(m)	>20	2	7	2

OIL ANALYSIS REPORT

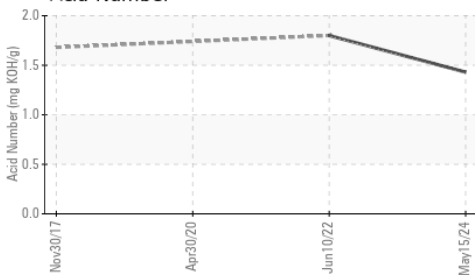
Ferrous Alloys



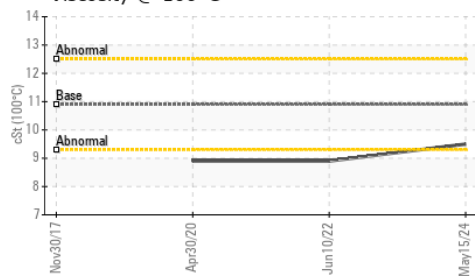
Particle Count



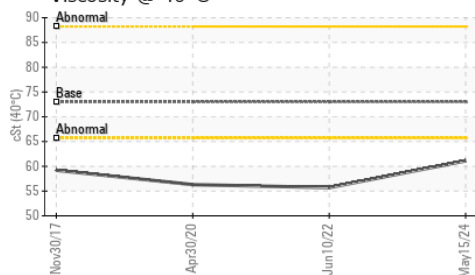
Acid Number



Viscosity @ 100°C



Viscosity @ 40°C



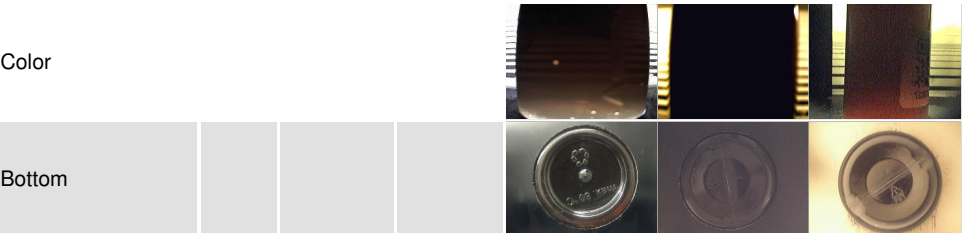
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>80000	30757	69482	---
Particles >6µm	ASTM D7647	>20000	333	444	---
Particles >14µm	ASTM D7647	>640	6	42	---
Particles >21µm	ASTM D7647	>160	3	17	---
Particles >38µm	ASTM D7647	>40	1	3	---
Particles >71µm	ASTM D7647	>10	1	1	---
Oil Cleanliness	ISO 4406 (c)	>23/21/16	22/16/10	23/16/13	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*		1.43	1.80	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar Visual*	NONE	NONE	NONE	NONE
Silt	scalar Visual*	NONE	VLITE	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*	>0.075	NEG	NEG	NEG
Free Water	scalar Visual*		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)	73	61.1	55.7	56.3
Visc @ 100°C	cSt ASTM D7279(m)	10.9	9.5	8.9	8.9
Viscosity Index (VI)	Scale ASTM D2270*	138	137	137	135

SAMPLE IMAGES



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0062095
Lab Number : **02647821**
Unique Number : 5813373
Test Package : IND 2 (Additional Tests: KV100, PQ, VI)

TRUCK AND EQUIPMENT SOLUTION
 2 BERTRAM INDUSTRIAL PKWY.
 MIDHURST, ON
 CA L9X 1L2
 Contact: Julie Holden
 parts@tesbarrie.com
 T: (705)792-7620
 F: (705)725-5425

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.