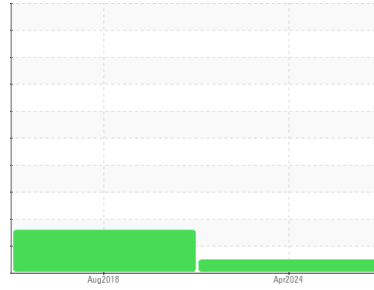




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
JOHN DEERE CD4045T518479
 Component
Diesel Engine
 Fluid
ALPHA CJ4 15W40 (3 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 acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WCM2315030	WCM2315001	---
Sample Date	Client Info			15 Apr 2024	13 Aug 2018	---
Machine Age	hrs	Client Info		1636	900	---
Oil Age	hrs	Client Info		661	604	---
Oil Changed	Client Info			Changed	Not Changd	---
Sample Status				NORMAL	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>2.1		<1.0	<1.0	---
Water	WC Method	>0.21		NEG	NEG	---
Glycol	WC Method			NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	44	▲ 198	---
Chromium	ppm	ASTM D5185m	>11	<1	3	---
Nickel	ppm	ASTM D5185m	>5	0	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	3	10	---
Lead	ppm	ASTM D5185m	>26	4	6	---
Copper	ppm	ASTM D5185m	>26	7	▲ 308	---
Tin	ppm	ASTM D5185m	>4	3	2	---
Antimony	ppm	ASTM D5185m		---	2	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	<1	---

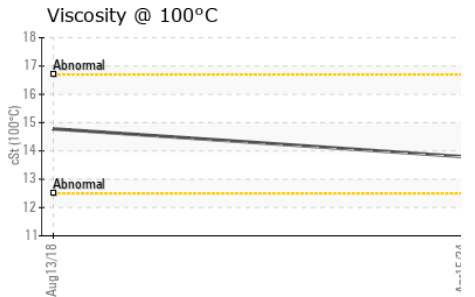
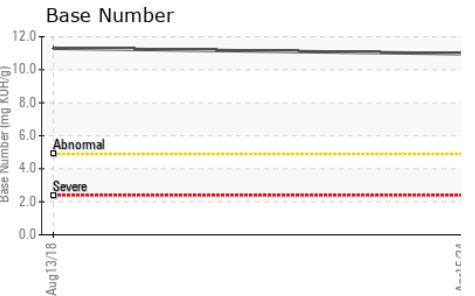
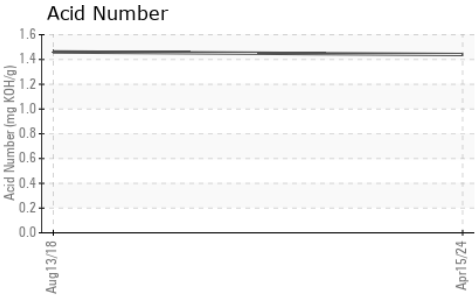
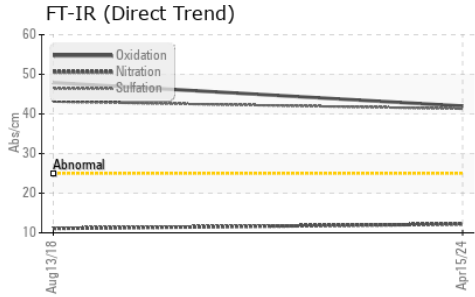
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	3	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		62	247	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m		17	77	---
Calcium	ppm	ASTM D5185m		4083	3858	---
Phosphorus	ppm	ASTM D5185m		984	1162	---
Zinc	ppm	ASTM D5185m		1093	1240	---
Sulfur	ppm	ASTM D5185m		4337	3889	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	8	14	---
Sodium	ppm	ASTM D5185m	>31	3	8	---
Potassium	ppm	ASTM D5185m	>20	<1	3	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	1.2	---
Nitration	Abs/cm	*ASTM D7624	>20	12.2	11.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	41.3	43.1	---



OIL ANALYSIS REPORT

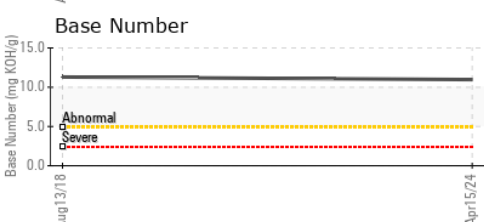
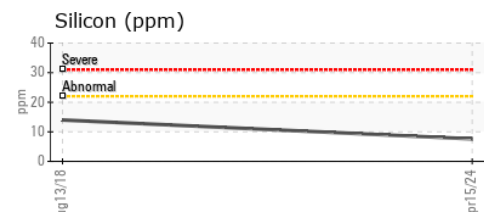
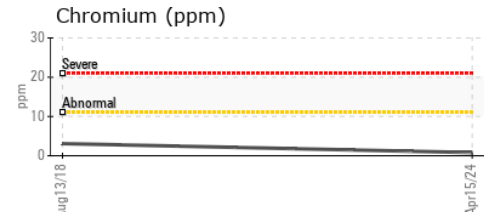
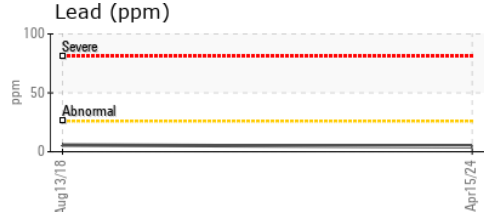
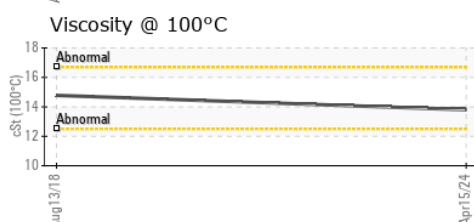
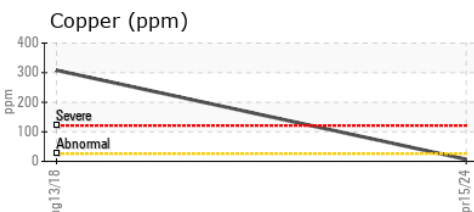
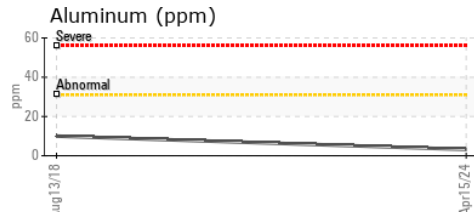
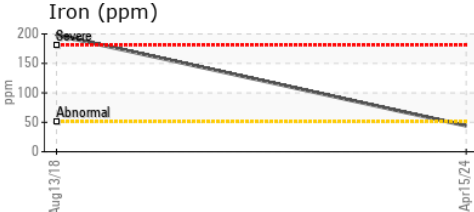


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	42.0	47.9	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.44	1.461	---	
Base Number (BN)	mg KOH/g	ASTM D2896	10.97	11.3	---	

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	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.8	14.78	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WCM2315030 **Received** : 23 Apr 2024
Lab Number : **06157848** **Tested** : 24 Apr 2024
Unique Number : 10993271 **Diagnosed** : 25 Apr 2024 - Don Baldrige
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)