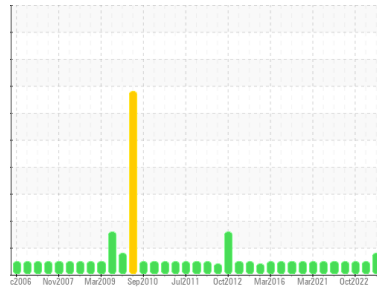




OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
JOHN DEERE 270CLC 8350 (S/N 270CFF270CX702180)
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON XL SYN BLEND 15W40 (48 QTS)

DIAGNOSIS

Recommendation
 Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
 The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other 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		WC0913262	WC0790930	WC0734487
Sample Date	Client Info		09 Apr 2024	09 May 2023	26 Oct 2022
Machine Age	hrs	Client Info	6272	5212	4708
Oil Age	hrs	Client Info	1060	504	531
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>2.1	<1.0	<1.0	<1.0
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	49	20	19
Chromium	ppm	ASTM D5185m >11	<1	<1	<1
Nickel	ppm	ASTM D5185m >5	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >31	6	<1	3
Lead	ppm	ASTM D5185m >26	6	<1	2
Copper	ppm	ASTM D5185m >26	▲ 245	1	1
Tin	ppm	ASTM D5185m >4	<1	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 1	6	9	3
Barium	ppm	ASTM D5185m 1	0	0	0
Molybdenum	ppm	ASTM D5185m 60	65	59	59
Manganese	ppm	ASTM D5185m 1	1	<1	<1
Magnesium	ppm	ASTM D5185m 1010	979	938	914
Calcium	ppm	ASTM D5185m 1070	1157	1187	1077
Phosphorus	ppm	ASTM D5185m 1150	1080	1002	977
Zinc	ppm	ASTM D5185m 1270	1315	1257	1162
Sulfur	ppm	ASTM D5185m 2060	3091	3453	3486

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >22	7	3	4
Sodium	ppm	ASTM D5185m >31	9	1	1
Potassium	ppm	ASTM D5185m >20	9	1	<1

INFRA-RED

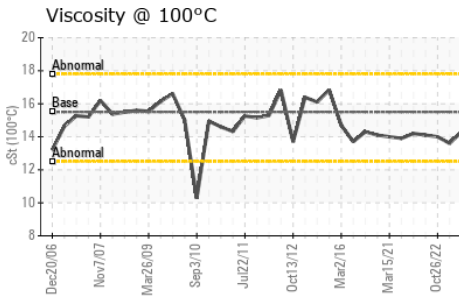
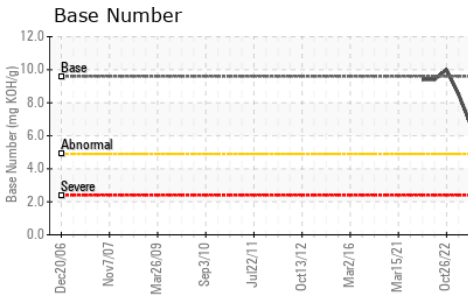
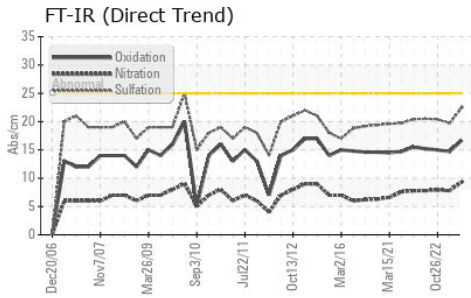
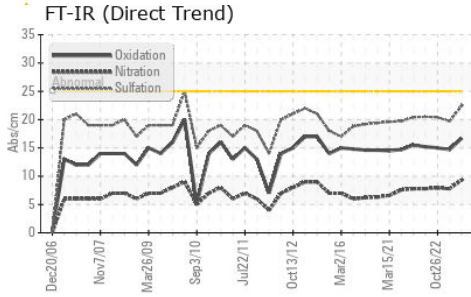
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.8	0.9	0.8
Nitration	Abs/cm	*ASTM D7624 >20	9.3	7.8	7.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.4	19.7	20.4

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	16.7	14.7	15.0
Base Number (BN)	mg KOH/g	ASTM D2896 9.6	6.7	8.5	10.0



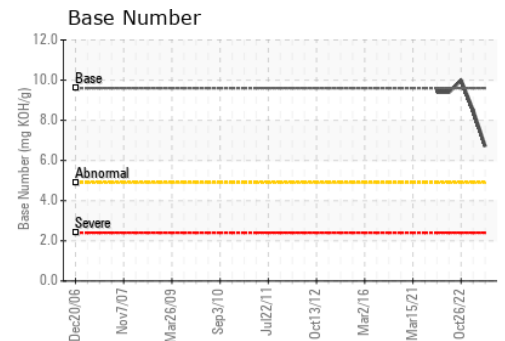
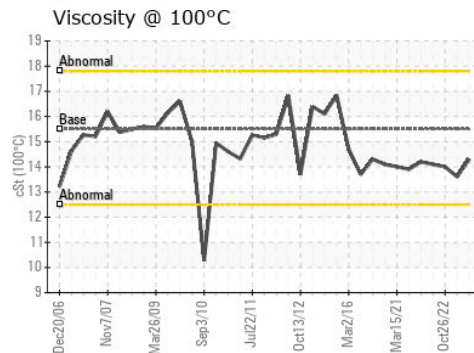
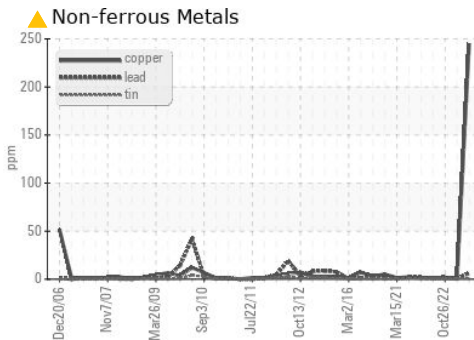
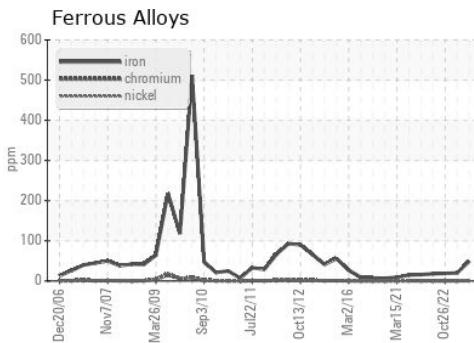
OIL ANALYSIS REPORT



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	15.5	14.3	13.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0913262
 Lab Number : 06147047
 Unique Number : 10977125
 Test Package : CONST (Additional Tests: TBN)

TRADER CONSTRUCTION CO.
 PO DRAWER 1578
 NEW BERN, NC
 US 28563
 Contact: MIKE WYATT
 mw Wyatt@traderconstruction.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)

T: (252)633-1399

F: (252)638-4871