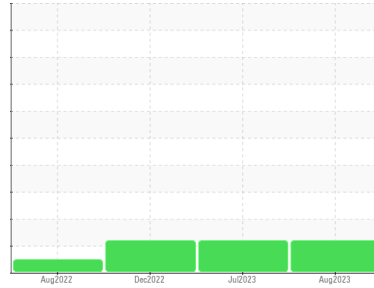


OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
JOHN DEERE 9460R 1RW9460RECP002291
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (--- QTS)

DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0081017	PCA0081019	PCA0081085
Sample Date	Client Info		30 Aug 2023	28 Jul 2023	19 Dec 2022
Machine Age	hrs	Client Info	13676	13423	13165
Oil Age	hrs	Client Info	253	258	253
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION	method	limit/base	current	history1	history2
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	11	17	15
Chromium	ppm	ASTM D5185m >20	<1	<1	<1
Nickel	ppm	ASTM D5185m >4	0	0	<1
Titanium	ppm	ASTM D5185m	<1	0	<1
Silver	ppm	ASTM D5185m >3	0	0	1
Aluminum	ppm	ASTM D5185m >20	<1	2	3
Lead	ppm	ASTM D5185m >40	2	2	3
Copper	ppm	ASTM D5185m >330	7	14	8
Tin	ppm	ASTM D5185m >15	<1	1	1
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	16
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	54	65	58
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	919	1029	864
Calcium	ppm	ASTM D5185m	1022	1143	1040
Phosphorus	ppm	ASTM D5185m	961	1124	948
Zinc	ppm	ASTM D5185m	1178	1358	1130
Sulfur	ppm	ASTM D5185m	3476	3964	2743

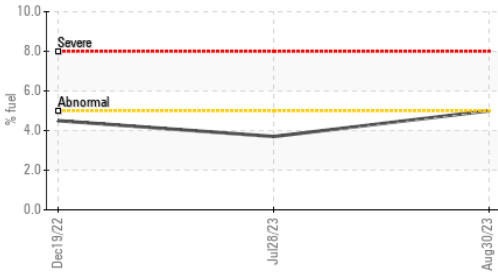
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	3	7	6
Sodium	ppm	ASTM D5185m	2	3	1
Potassium	ppm	ASTM D5185m >20	<1	<1	1
Fuel	%	ASTM D3524 >5	▲ 5.0	▲ 3.7	▲ 4.5

INFRA-RED	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.6	0.5	0.5
Nitration	Abs/cm	*ASTM D7624 >20	6.9	6.9	7.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.6	19.3	19.2

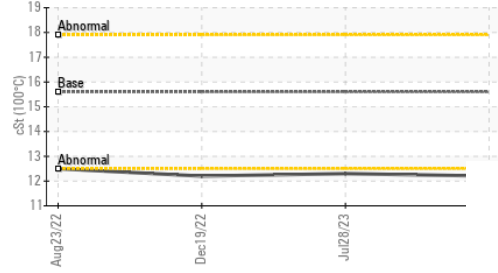
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.5	15.6	15.2
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	10.59	10.62	10.81

OIL ANALYSIS REPORT

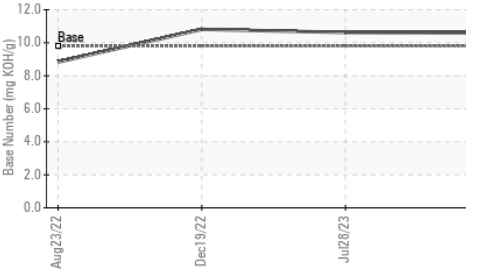
▲ Fuel Dilution



▲ Viscosity @ 100°C



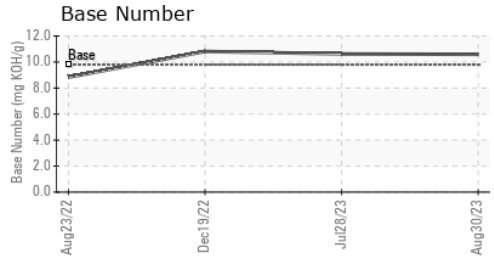
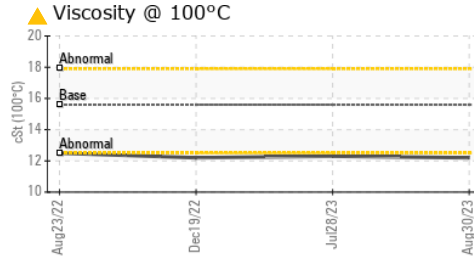
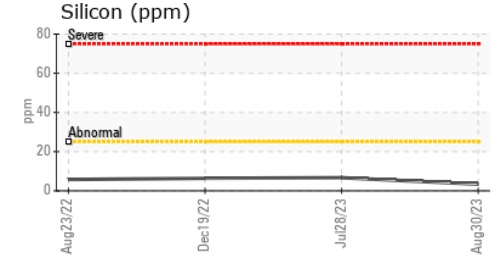
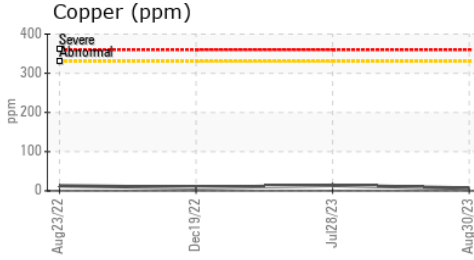
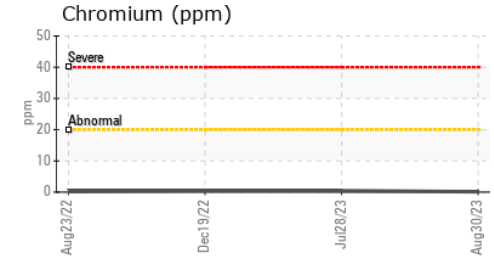
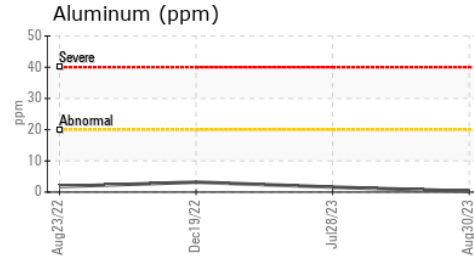
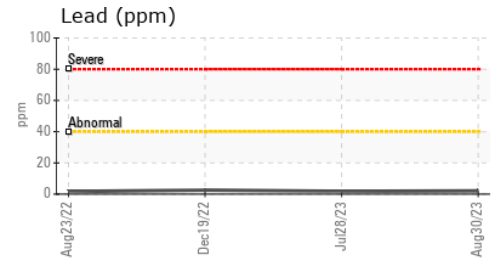
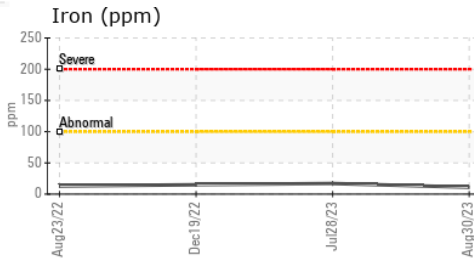
Base Number



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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	▲ 12.2	▲ 12.3	▲ 12.2

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0081017 **Received** : 05 Sep 2023
Lab Number : 05942439 **Diagnosed** : 08 Sep 2023
Unique Number : 10633051 **Diagnostician** : Wes Davis
Test Package : MOB 2 (Additional Tests: FUELDILUTION, PercentFuel)

VEENSTRA FARMING
 15861 SEXTON RD
 ESCALON, CA
 US 95320

Contact: DEREK VEENSTRA
 KEREKVEENSTRA@AOL.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)

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F: