



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 210K 66614 (S/N 1R8210KXHEG892121)
Component
Diesel Engine
Fluid
PETRO CANADA 15W40 (12 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0078901	PC425135	---
Sample Date		Client Info		08 Mar 2024	28 Jun 2019	---
Machine Age	hrs	Client Info		3752	2059	---
Oil Age	hrs	Client Info		0	500	---
Filter Age	hrs	Client Info		0	500	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>51	18	21	---
Chromium	ppm	ASTM D5185(m)	>11	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>5	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>31	3	3	---
Lead	ppm	ASTM D5185(m)	>26	<1	2	---
Copper	ppm	ASTM D5185(m)	>26	2	3	---
Tin	ppm	ASTM D5185(m)	>4	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

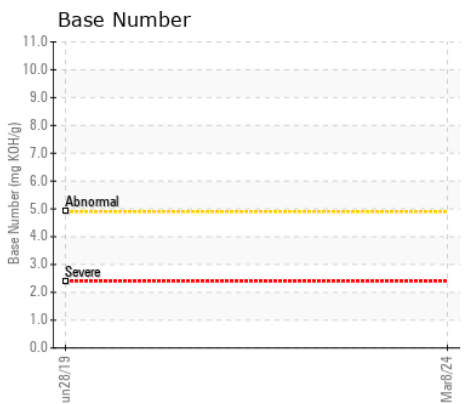
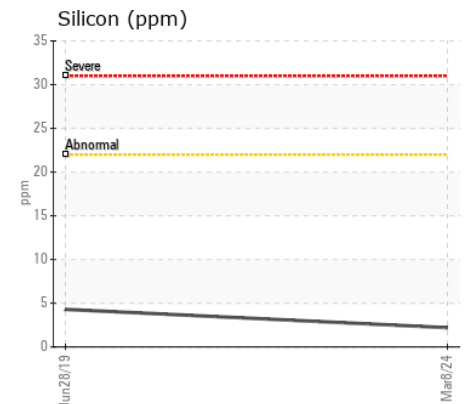
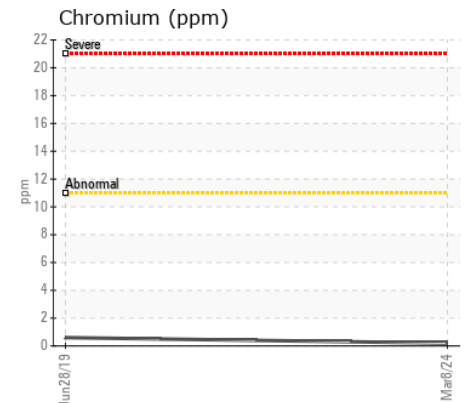
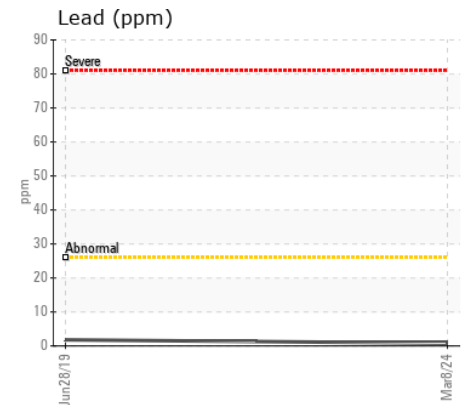
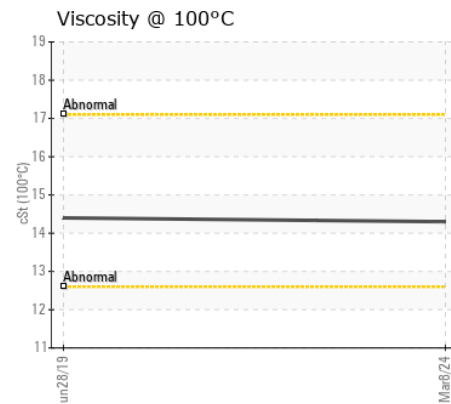
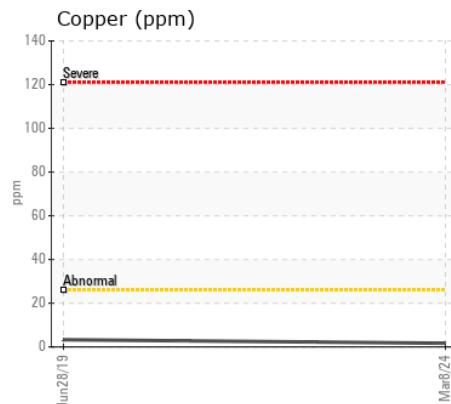
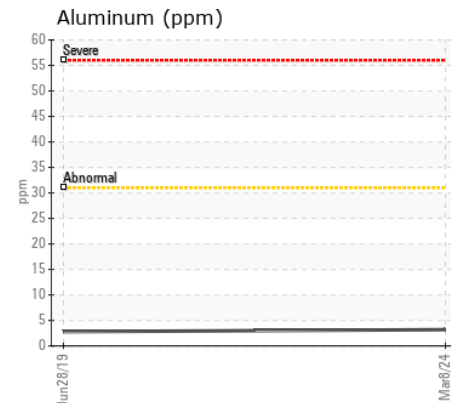
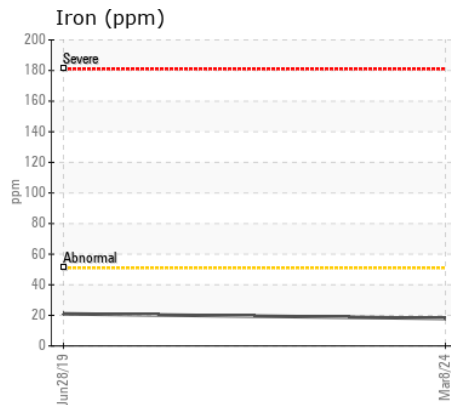
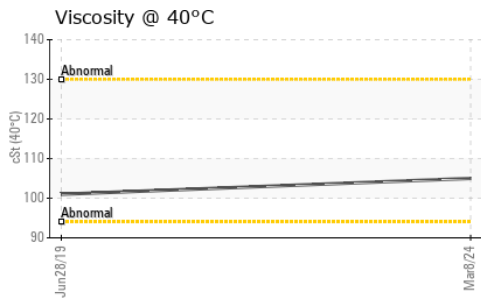
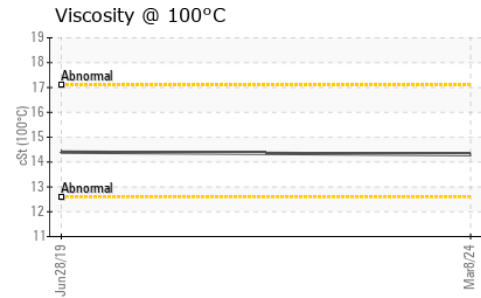
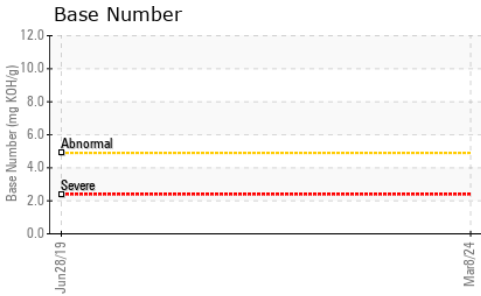
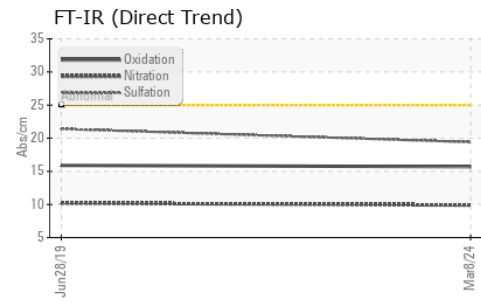
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	2	4	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Fuel		WC Method	>2.1	<1.0	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.6	0.7	---
Nitration	Abs/cm	ASTM D7624*	>20	9.9	10.2	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.4	21.4	---
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	---

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.

Sodium	ppm	ASTM D5185(m)		2	2	---
Boron	ppm	ASTM D5185(m)		19	11	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		80	79	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)		965	912	---
Calcium	ppm	ASTM D5185(m)		1096	1015	---
Phosphorus	ppm	ASTM D5185(m)		1000	966	---
Zinc	ppm	ASTM D5185(m)		1200	1185	---
Sulfur	ppm	ASTM D5185(m)		2555	2598	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.7	15.9	---
Base Number (BN)	mg KOH/g	ASTM D2896*		9.94	---	---
Visc @ 40°C	cSt	ASTM D7279(m)		105	101	---
Visc @ 100°C	cSt	ASTM D7279(m)		14.3	14.4	---
Viscosity Index (VI)	Scale	ASTM D2270*		139	146	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078901
Lab Number : 02628702
Unique Number : 5761834
Test Package : MOB 2 (Additional Tests: KV40, VI)

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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.