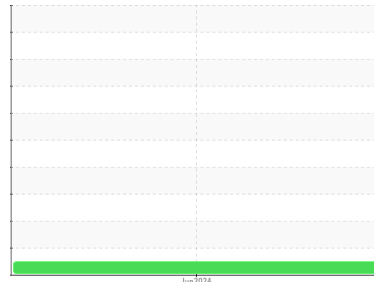




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

MINING

Machine Id

ME-587 JOHN DEERE 944K 1DW944KXTNL703685

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 10W30 (--- GAL)

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

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0946251	---	---
Sample Date	Client Info			19 Jun 2024	---	---
Machine Age	hrs	Client Info		6919	---	---
Oil Age	hrs	Client Info		0	---	---
Oil Changed	Client Info			Changed	---	---
Sample Status				NORMAL	---	---

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>51	34	---	---
Chromium	ppm	ASTM D5185(m)	>11	<1	---	---
Nickel	ppm	ASTM D5185(m)	>5	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>31	4	---	---
Lead	ppm	ASTM D5185(m)	>26	6	---	---
Copper	ppm	ASTM D5185(m)	>26	7	---	---
Tin	ppm	ASTM D5185(m)	>4	2	---	---
Antimony	ppm	ASTM D5185(m)		0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Beryllium	ppm	ASTM D5185(m)		0	---	---
Cadmium	ppm	ASTM D5185(m)		0	---	---

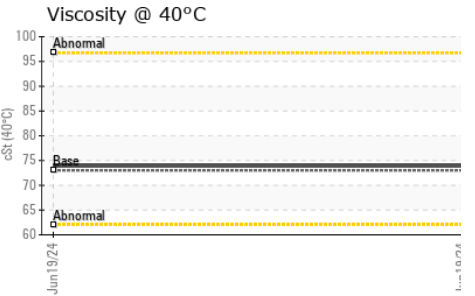
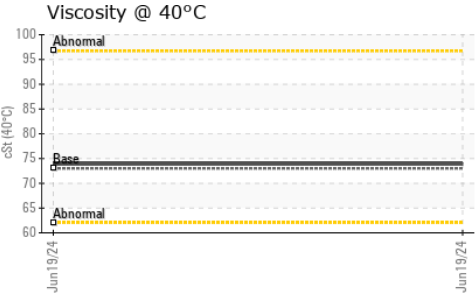
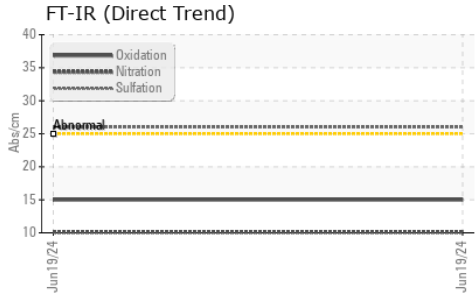
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	4	---	---
Barium	ppm	ASTM D5185(m)	10	0	---	---
Molybdenum	ppm	ASTM D5185(m)	100	14	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)	450	89	---	---
Calcium	ppm	ASTM D5185(m)	3000	2216	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	870	---	---
Zinc	ppm	ASTM D5185(m)	1350	1046	---	---
Sulfur	ppm	ASTM D5185(m)	4250	2845	---	---
Lithium	ppm	ASTM D5185(m)		<1	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>22	3	---	---
Sodium	ppm	ASTM D5185(m)		5	---	---
Potassium	ppm	ASTM D5185(m)	>20	3	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.9	---	---
Nitration	Abs/cm	ASTM D7624*	>20	10.1	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.0	---	---



OIL ANALYSIS REPORT

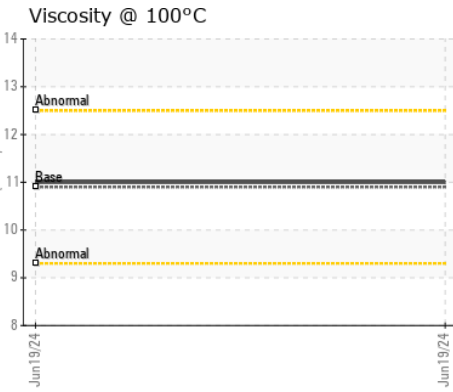
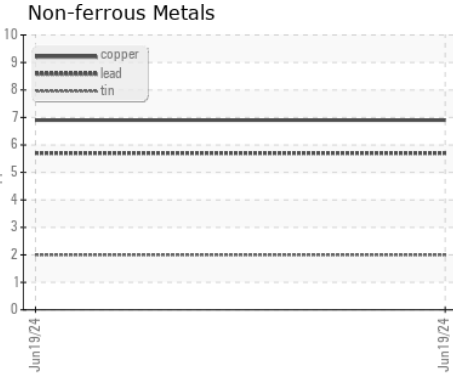
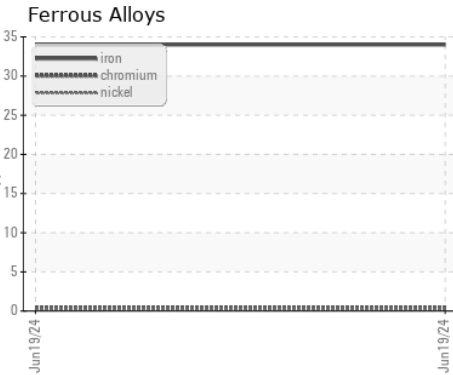


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	15.0	---	---

VISUAL	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.21	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	73	73.9	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	11.0	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	138	138	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0946251 **Received** : 21 Jun 2024
Lab Number : 02643348 **Tested** : 21 Jun 2024
Unique Number : 5800887 **Diagnosed** : 21 Jun 2024 - Wes Davis
Test Package : CONST (Additional Tests: KV40, VI)

Covia Canada Ltd.
 260 Unimin Road, County Rd. #46
 Havelock, ON
 CA K0L 1Z0
 Contact: Dan Lyon
 dan.lyon@coviacorp.com
 T: (705)632-8904
 F:

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.