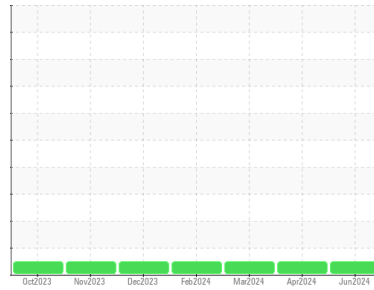




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

MINING

Machine Id

ME-84 JOHN DEERE 844L 1DW844LXCNL715070

Component

Diesel Engine

Fluid

SHELL RIMULA SUPER SAE 15W40 (10 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 condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0908950	WC0908939	WC0901884
Sample Date	Client Info		03 Jun 2024	26 Apr 2024	18 Mar 2024
Machine Age	hrs	Client Info	7226	7231	6649
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	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	1	23	20
Chromium	ppm	ASTM D5185m	>11	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	2	3	2
Lead	ppm	ASTM D5185m	>26	<1	8	8
Copper	ppm	ASTM D5185m	>26	<1	2	4
Tin	ppm	ASTM D5185m	>4	<1	2	2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		2	0	0
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		53	62	62
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		416	431	472
Calcium	ppm	ASTM D5185m	2840	1722	1826	1717
Phosphorus	ppm	ASTM D5185m	1150	1085	1085	1179
Zinc	ppm	ASTM D5185m	1270	1268	1266	1264
Sulfur	ppm	ASTM D5185m	2829	3876	3558	3447

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>22	5	3	5
Sodium	ppm	ASTM D5185m	>31	<1	4	1
Potassium	ppm	ASTM D5185m	>20	4	0	2

INFRA-RED

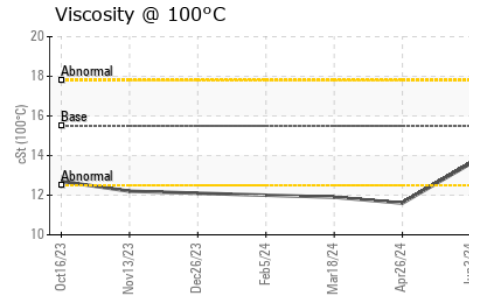
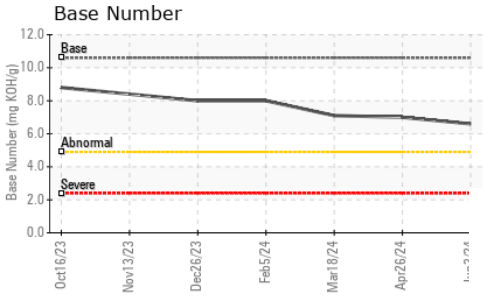
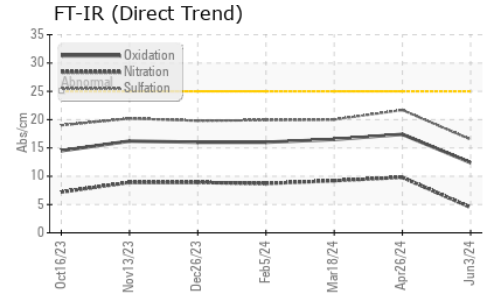
	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	4.5	9.8	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.5	21.7	20.0

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.4	17.4	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.6	6.6	7.0	7.1



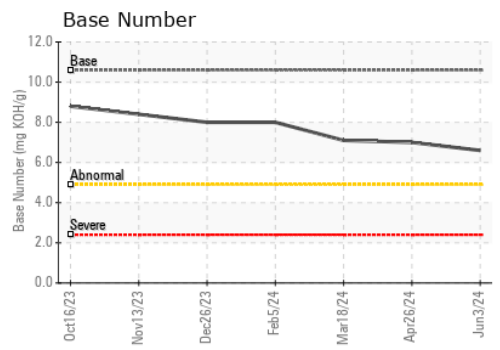
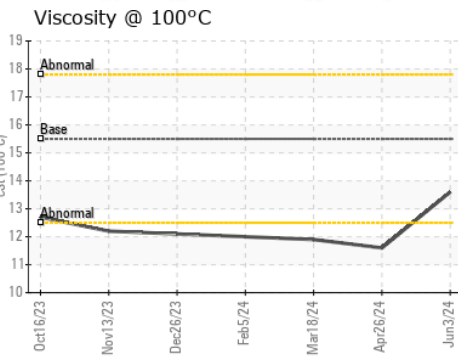
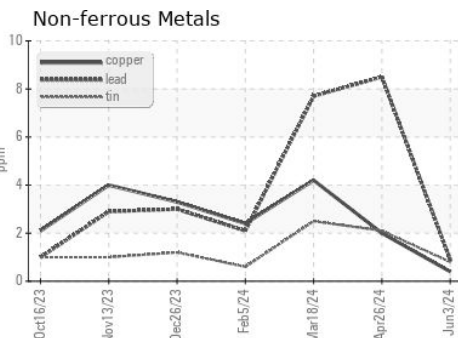
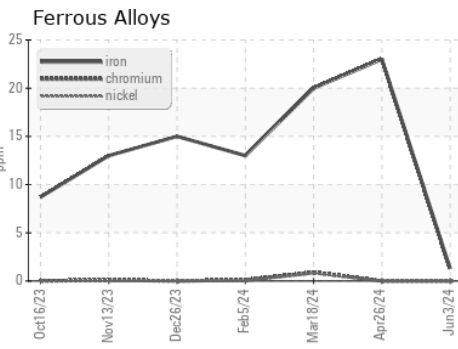
OIL ANALYSIS REPORT



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	13.6	11.6	11.9

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0908950 **Received** : 21 Jun 2024
Lab Number : 06216661 **Tested** : 24 Jun 2024
Unique Number : 11089525 **Diagnosed** : 24 Jun 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

COVIA - GUION - 025
 421 MAIN STREET
 GUION, AR
 US 72540
 Contact: DANIEL DELGADO
 daniel.delgado@coviacorp.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)