



OIL ANALYSIS REPORT

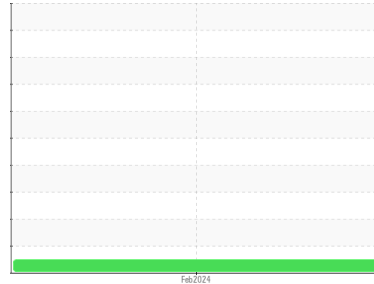
Sample Rating Trend

NORMAL



Area
LAKE WENDELL - RANDY EDWARDS
Machine Id
JOHN DEERE 9510 681045

Component
Diesel Engine
Fluid
{not provided} (--- QTS)



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 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		WC06136022	---	---
Sample Date	Client Info		26 Feb 2024	---	---
Machine Age	hrs	Client Info	4791	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
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 D5185m	>51	8	---
Chromium	ppm	ASTM D5185m	>11	<1	---
Nickel	ppm	ASTM D5185m	>5	0	---
Titanium	ppm	ASTM D5185m		0	---
Silver	ppm	ASTM D5185m	>3	0	---
Aluminum	ppm	ASTM D5185m	>31	4	---
Lead	ppm	ASTM D5185m	>26	0	---
Copper	ppm	ASTM D5185m	>26	0	---
Tin	ppm	ASTM D5185m	>4	<1	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		313	---
Barium	ppm	ASTM D5185m		0	---
Molybdenum	ppm	ASTM D5185m		258	---
Manganese	ppm	ASTM D5185m		<1	---
Magnesium	ppm	ASTM D5185m		833	---
Calcium	ppm	ASTM D5185m		1418	---
Phosphorus	ppm	ASTM D5185m		907	---
Zinc	ppm	ASTM D5185m		1059	---
Sulfur	ppm	ASTM D5185m		3381	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	6	---
Sodium	ppm	ASTM D5185m	>31	1	---
Potassium	ppm	ASTM D5185m	>20	2	---

INFRA-RED

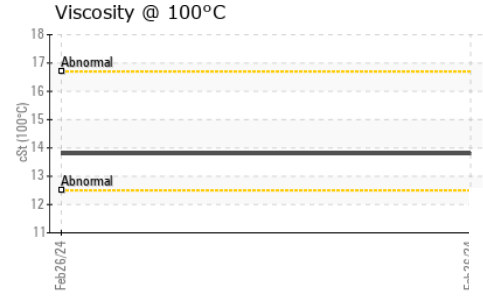
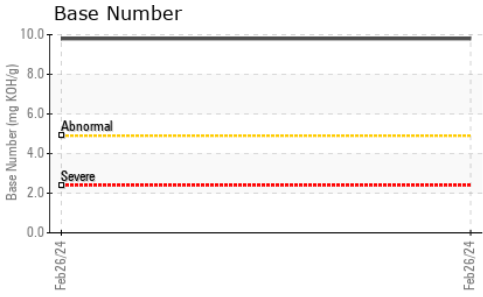
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	7.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	---
Base Number (BN)	mg KOH/g	ASTM D2896		9.8	---



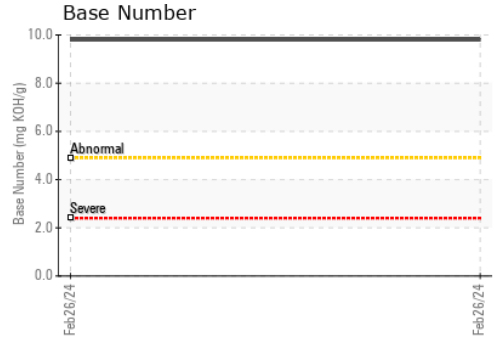
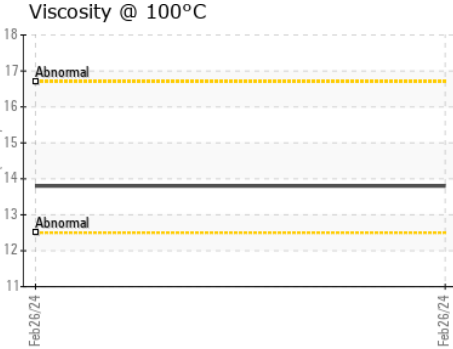
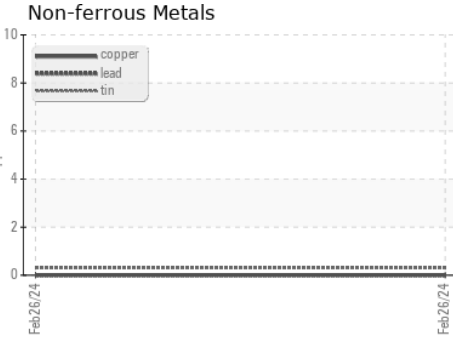
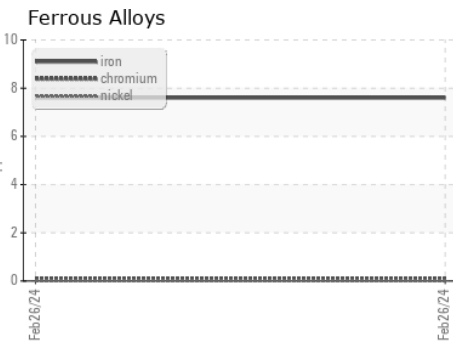
OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.21	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.8	---	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC06136022 Received : 02 Apr 2024
 Lab Number : 06136022 Tested : 03 Apr 2024
 Unique Number : 10955487 Diagnosed : 03 Apr 2024 - Wes Davis
 Test Package : CONST (Additional Tests: TBN)

QUALITY EQUIPMENT LLC
 2783 HWY 70 BUS E
 SMITHFIELD, NC
 US 27577
 Contact: COY STANLEY
 cstanley@qualityequip.com
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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)