



OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
RICHARD TODD
 Machine Id
JOHN DEERE 9400 665322
 Component
Diesel Engine
 Fluid
 DIESEL ENGINE OIL SAE 40 (--- QTS)

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC06182147	---	---
Sample Date	Client Info	16 May 2024	---	---
Machine Age	hrs Client Info	0	---	---
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	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >51	9	---	---
Chromium	ppm ASTM D5185m >11	0	---	---
Nickel	ppm ASTM D5185m >5	0	---	---
Titanium	ppm ASTM D5185m	0	---	---
Silver	ppm ASTM D5185m >3	1	---	---
Aluminum	ppm ASTM D5185m >31	1	---	---
Lead	ppm ASTM D5185m >26	2	---	---
Copper	ppm ASTM D5185m >26	1	---	---
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 250	180	---	---
Barium	ppm ASTM D5185m 10	0	---	---
Molybdenum	ppm ASTM D5185m 100	3	---	---
Manganese	ppm ASTM D5185m	<1	---	---
Magnesium	ppm ASTM D5185m 450	6	---	---
Calcium	ppm ASTM D5185m 3000	2273	---	---
Phosphorus	ppm ASTM D5185m 1150	998	---	---
Zinc	ppm ASTM D5185m 1350	1206	---	---
Sulfur	ppm ASTM D5185m 4250	3912	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >22	3	---	---
Sodium	ppm ASTM D5185m >216	8	---	---
Potassium	ppm ASTM D5185m >20	13	---	---
Glycol	% *ASTM D2982	NEG	---	---

INFRA-RED

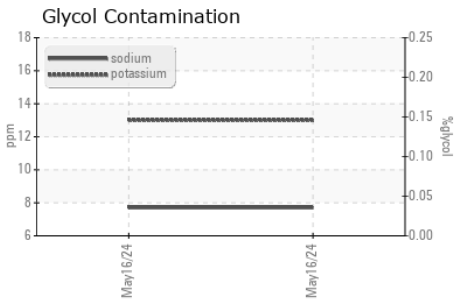
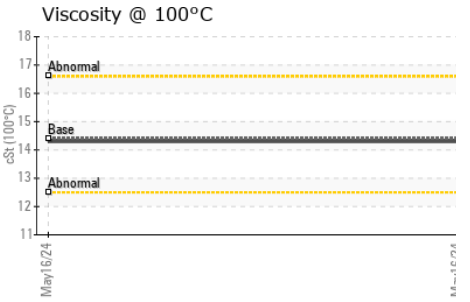
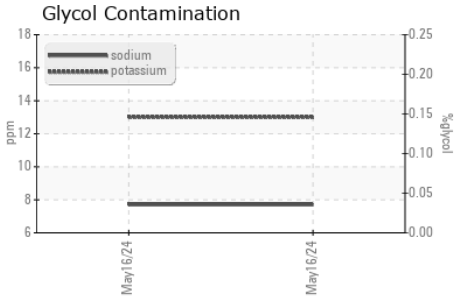
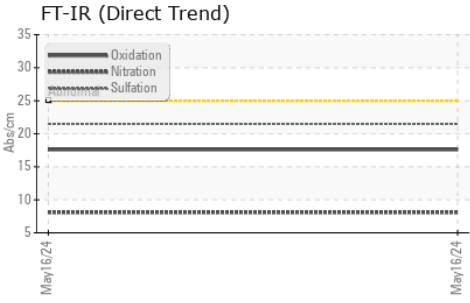
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.2	---	---
Nitration	Abs/cm *ASTM D7624 >20	8.1	---	---
Sulfation	Abs/.1mm *ASTM D7415 >30	21.5	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	17.6	---	---
Base Number (BN)	mg KOH/g ASTM D2896 8.5	8.3	---	---



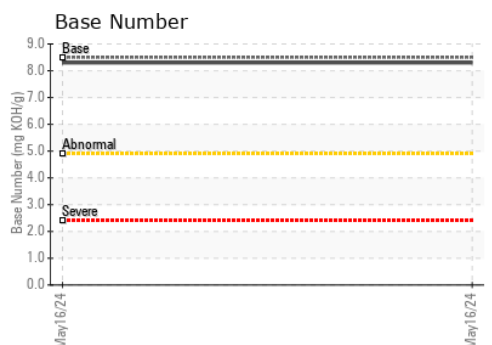
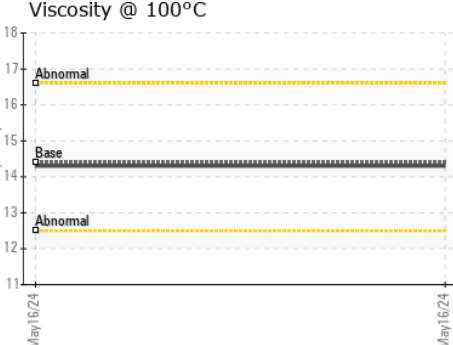
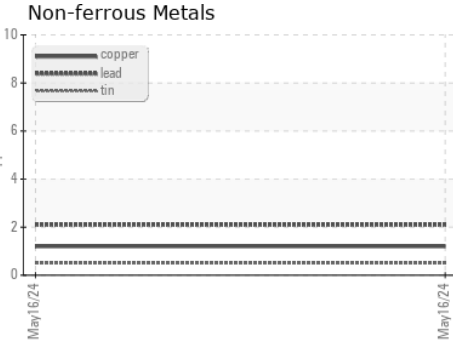
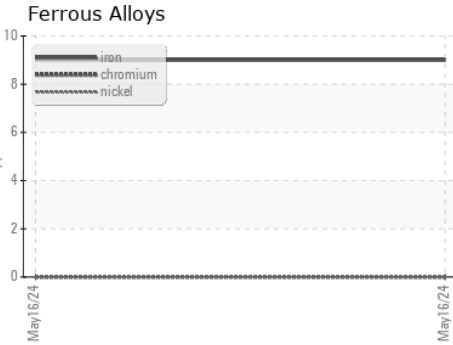
OIL ANALYSIS REPORT



VISUAL	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	14.4	14.3	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06182147 **Received** : 16 May 2024
Lab Number : 06182147 **Tested** : 20 May 2024
Unique Number : 11033473 **Diagnosed** : 20 May 2024 - Angela Borella
Test Package : CONST (Additional Tests: Glycol, TBN)

QUALITY EQUIPMENT LLC
 2783 HWY 70 BUS E
 SMITHFIELD, NC
 US 27577
 Contact: COY STANLEY
 cstanley@qualityequip.com
 T: (919)934-2701
 F:

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)