



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**JOHN DEERE 870GP 870GPGRADERZ**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 40 (30 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02632202	---	---
Sample Date		Client Info		19 Mar 2024	---	---
Machine Age	hrs	Client Info		11710	---	---
Oil Age	hrs	Client Info		800	---	---
Filter Age	hrs	Client Info		800	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>51	12	---	---
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	2	---	---
Lead	ppm	ASTM D5185(m)	>26	0	---	---
Copper	ppm	ASTM D5185(m)	>26	2	---	---
Tin	ppm	ASTM D5185(m)	>4	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

## CONTAMINATION

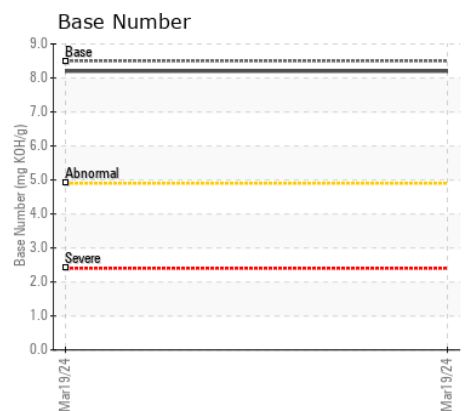
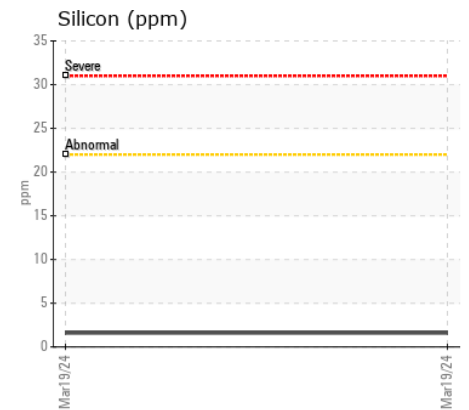
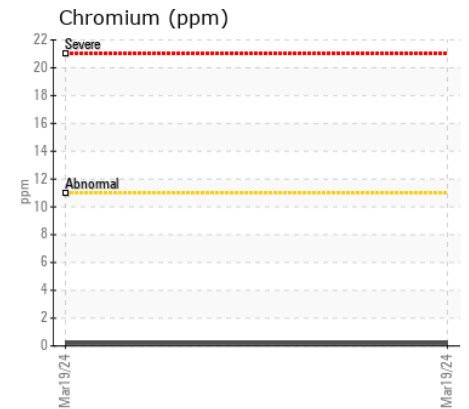
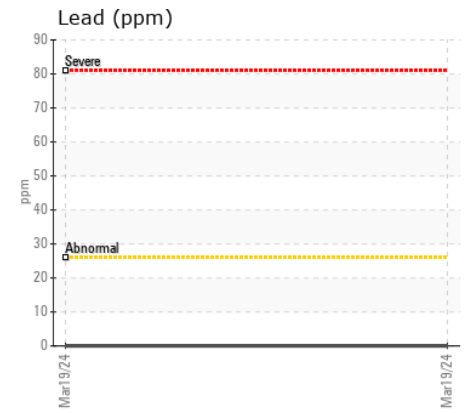
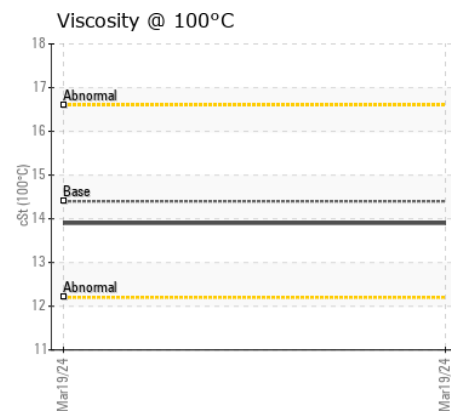
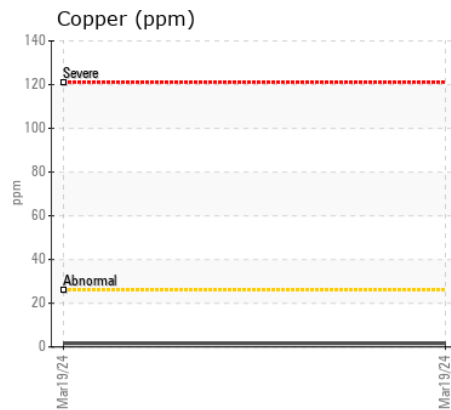
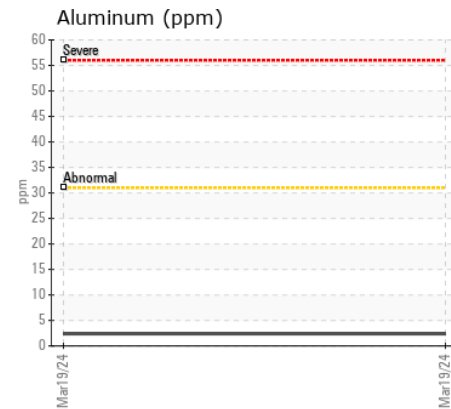
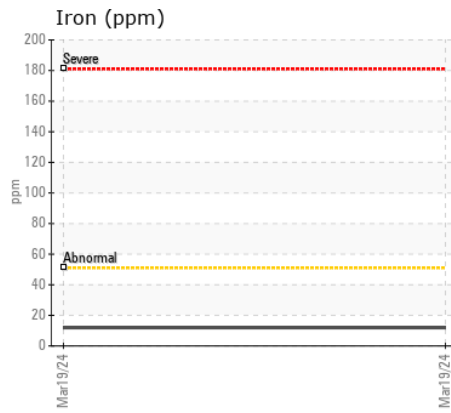
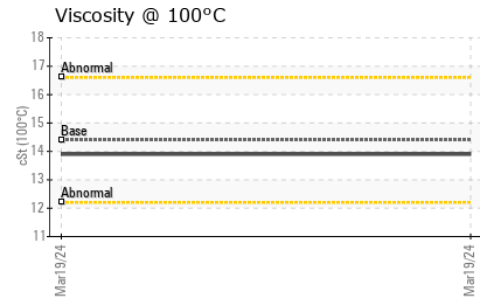
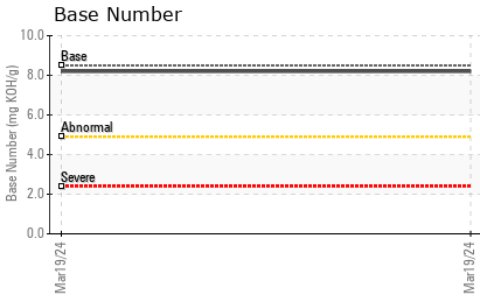
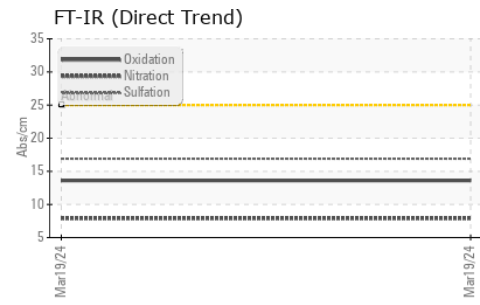
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	2	---	---
Potassium	ppm	ASTM D5185(m)	>20	1	---	---
Fuel		WC Method	>2.1	<1.0	---	---
Water		WC Method	>0.21	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	7.9	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.9	---	---
Emulsified Water	scalar	Visual*	>0.21	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)	>216	10	---	---
Boron	ppm	ASTM D5185(m)	250	6	---	---
Barium	ppm	ASTM D5185(m)	10	0	---	---
Molybdenum	ppm	ASTM D5185(m)	100	<1	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)	450	13	---	---
Calcium	ppm	ASTM D5185(m)	3000	2283	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	950	---	---
Zinc	ppm	ASTM D5185(m)	1350	1119	---	---
Sulfur	ppm	ASTM D5185(m)	4250	3172	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.6	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	8.20	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.9	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : TR02632202  
**Lab Number** : 02632202  
**Unique Number** : 5773355  
**Test Package** : MOB 2

**Received** : 30 Apr 2024  
**Tested** : 30 Apr 2024  
**Diagnosed** : 30 Apr 2024 - Wes Davis

**POLAR ENTERPRISE**  
 BOX 36, GRP 8  
 HADASHVILLE, MB  
 CA R0E 0X0  
 Contact: Trevor Panych

To discuss this sample report, contact Customer Service at 1-800-827-0711.

\* - 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)

T: (204)326-8683

F: