



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**JOHN DEERE 4127**  
 Component  
**Transmission (Manual)**  
 Fluid  
**TRC SPECIAL 303 (15 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06062956	TR04971270	TR04862371
Sample Date		Client Info		23 Dec 2023	23 Apr 2020	21 Nov 2019
Machine Age	hrs	Client Info		1970	930	930
Oil Age	hrs	Client Info		282	930	930
Filter Age	hrs	Client Info		282	930	930
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	6	42	32
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>7	0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	2	4	3
Lead	ppm	ASTM D5185m	>45	<1	9	7
Copper	ppm	ASTM D5185m	>225	3	32	28
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

**CONTAMINATION**

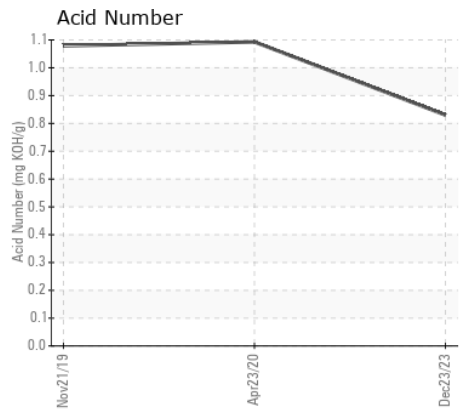
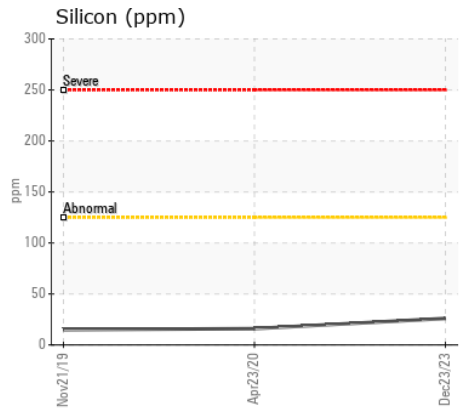
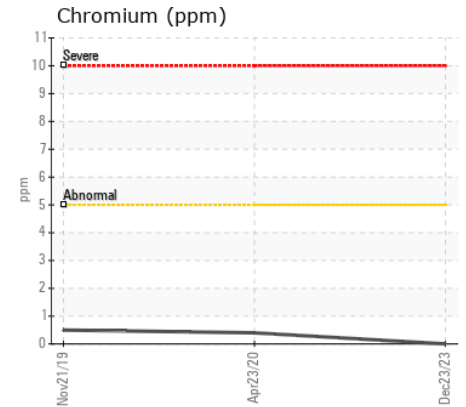
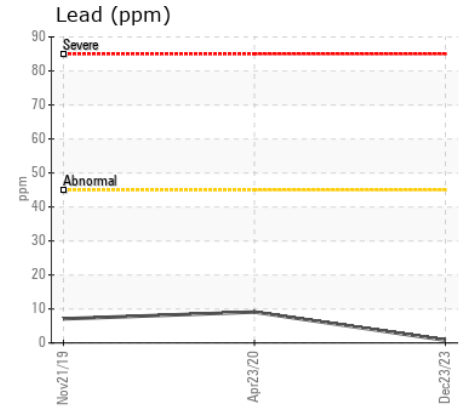
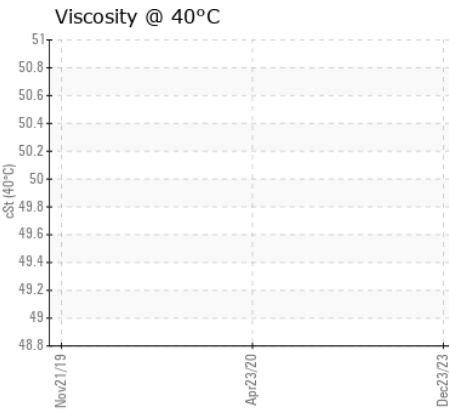
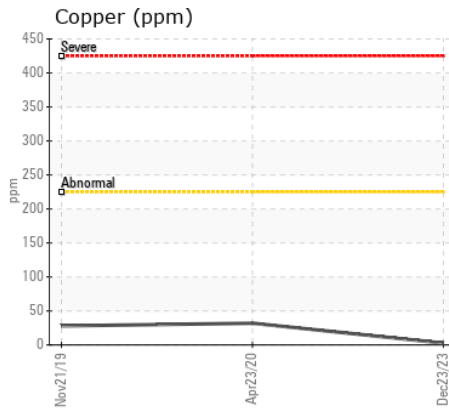
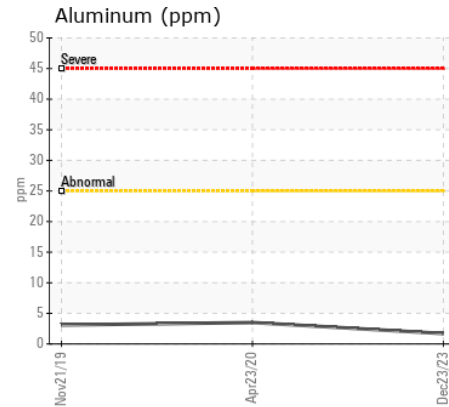
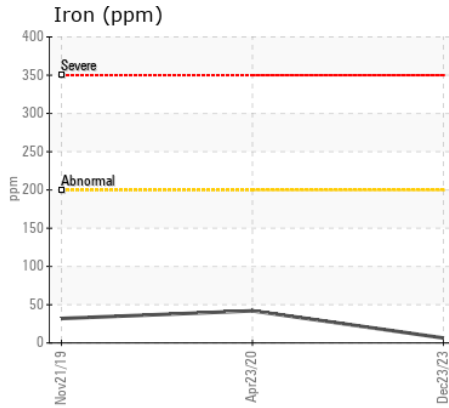
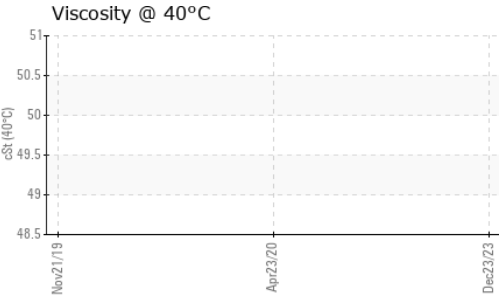
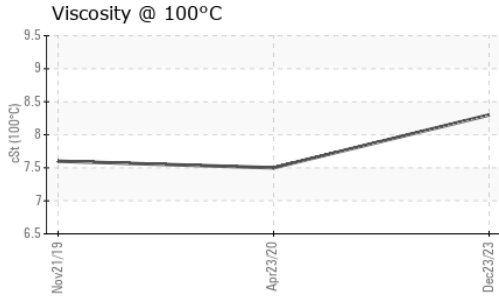
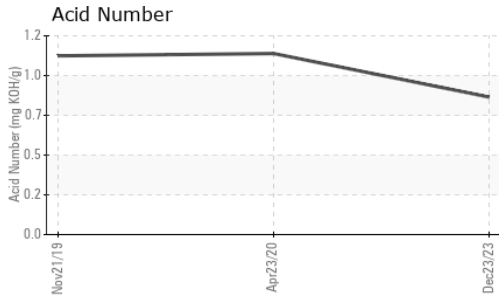
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>125	26	16	15
Potassium	ppm	ASTM D5185m	>20	0	0	6
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

**FLUID CONDITION**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		4	7	7
Boron	ppm	ASTM D5185m		142	17	40
Barium	ppm	ASTM D5185m		0	6	5
Molybdenum	ppm	ASTM D5185m		<1	1	<1
Manganese	ppm	ASTM D5185m		<1	3	3
Magnesium	ppm	ASTM D5185m		8	98	75
Calcium	ppm	ASTM D5185m		4702	3908	3822
Phosphorus	ppm	ASTM D5185m		1387	1122	1132
Zinc	ppm	ASTM D5185m		1895	1398	1399
Sulfur	ppm	ASTM D5185m		4619	3505	3932
Acid Number (AN)	mg KOH/g	ASTM D8045		0.83	1.093	1.079
Visc @ 40°C	cSt	ASTM D445		49.9	---	---
Visc @ 100°C	cSt	ASTM D445		8.3	7.5	7.6
Viscosity Index (VI)	Scale	ASTM D2270		140	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06062956 **Received** : 17 Jan 2024  
**Lab Number** : 06062956 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10834338 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: KV100, VI )

**RANDALL COUNTY ROAD DEPT.**  
 301 WEST HIGHWAY 60  
 CANYON, TX  
 US 79015  
 Contact: MIKE LEWIS

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:  
F: