



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 4128
 Component
Front Differential
 Fluid
TRC SPECIAL 303 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06062948	TR05868063	---
Sample Date		Client Info		27 Nov 2023	03 Jun 2023	---
Machine Age	hrs	Client Info		2099	0	---
Oil Age	hrs	Client Info		436	778	---
Filter Age	hrs	Client Info		0	778	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Not Chngd	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	32	57	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	0	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>25	1	<1	---
Lead	ppm	ASTM D5185m	>25	<1	<1	---
Copper	ppm	ASTM D5185m	>100	7	6	---
Tin	ppm	ASTM D5185m	>10	<1	1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

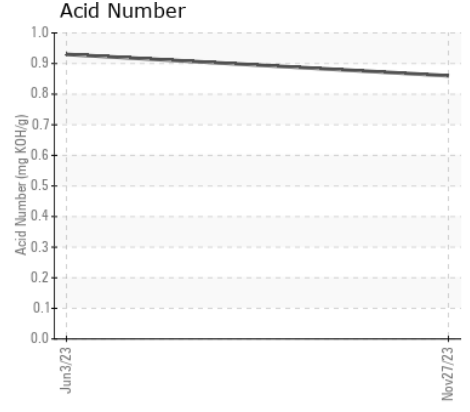
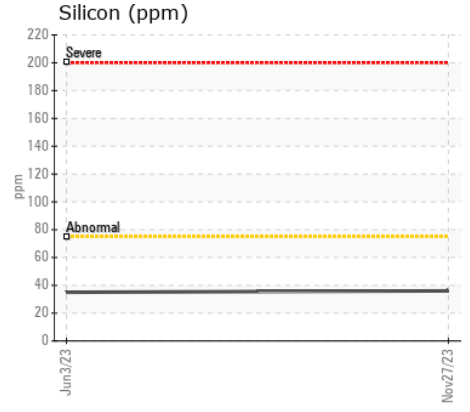
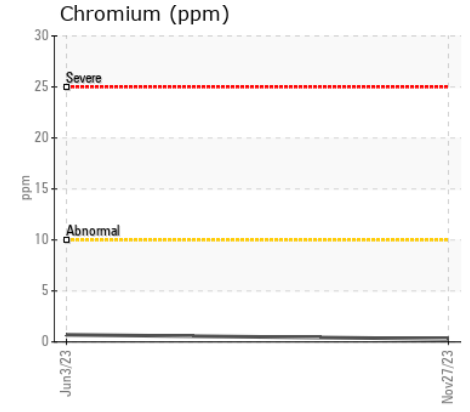
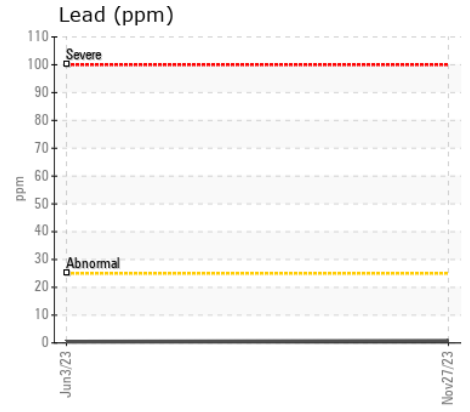
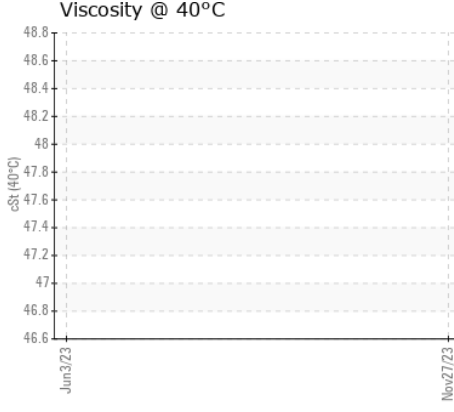
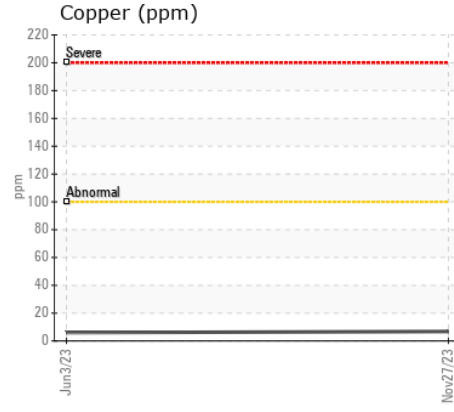
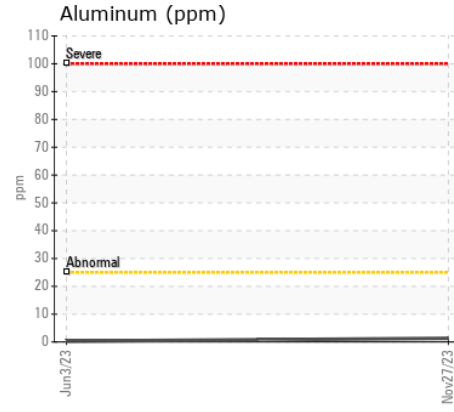
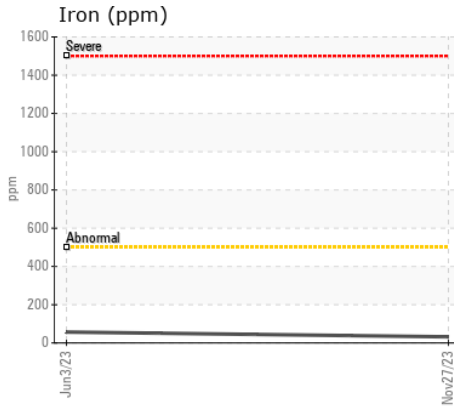
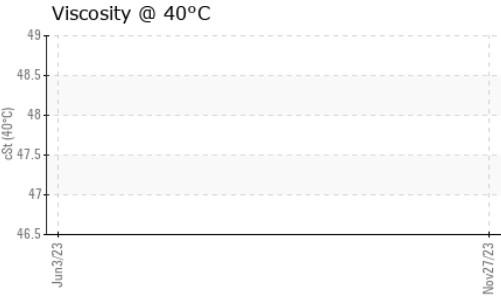
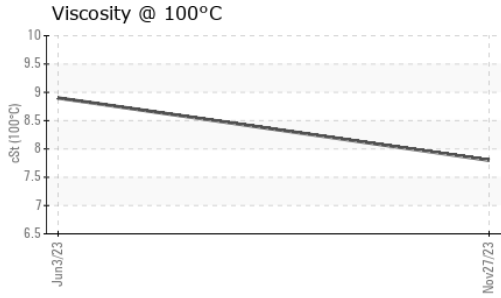
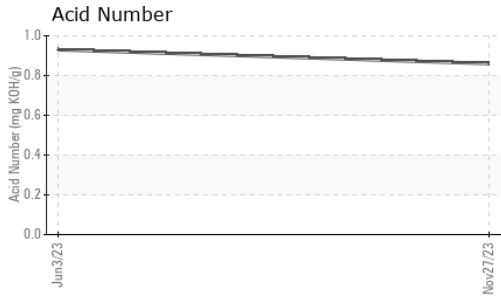
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	36	35	---
Potassium	ppm	ASTM D5185m	>20	0	3	---
Water		WC Method	>.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	LIGHT	LIGHT	---
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	>.2	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	---
Boron	ppm	ASTM D5185m		148	174	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		<1	1	---
Manganese	ppm	ASTM D5185m		<1	1	---
Magnesium	ppm	ASTM D5185m		11	21	---
Calcium	ppm	ASTM D5185m		4812	4681	---
Phosphorus	ppm	ASTM D5185m		1429	1416	---
Zinc	ppm	ASTM D5185m		1931	1807	---
Sulfur	ppm	ASTM D5185m		4279	5241	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.86	0.93	---
Visc @ 40°C	cSt	ASTM D445		47.6	---	---
Visc @ 100°C	cSt	ASTM D445		7.8	8.9	---
Viscosity Index (VI)	Scale	ASTM D2270		132	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06062948 **Received** : 17 Jan 2024
Lab Number : 06062948 **Diagnosed** : 19 Jan 2024
Unique Number : 10834330 **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: