



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 772G 72 - JOHN DEERE (S/N HF682978)

Component
Transmission (Manual)

Fluid
TRC UNIVERSAL TORQUE FLUID (8 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06086700	TR05605359	TR05392687
Sample Date		Client Info		07 Feb 2024	07 Jul 2022	28 Oct 2021
Machine Age	hrs	Client Info		5981	4509	4000
Oil Age	hrs	Client Info		1981	509	4000
Filter Age	hrs	Client Info		1981	509	2000
Oil Changed		Client Info		Changed	Not Changed	Changed
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	18	11	34
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	5	2	3
Lead	ppm	ASTM D5185m	>45	1	<1	5
Copper	ppm	ASTM D5185m	>225	20	9	24
Tin	ppm	ASTM D5185m	>10	2	<1	3
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

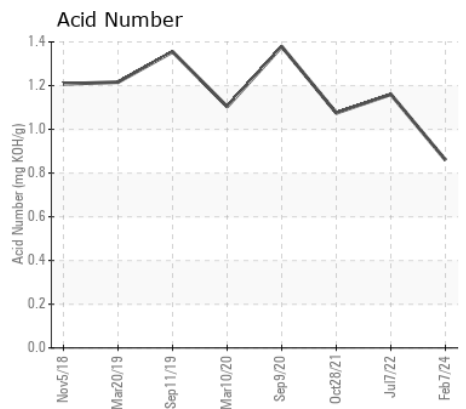
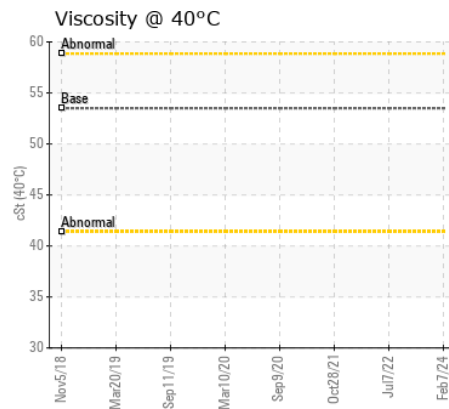
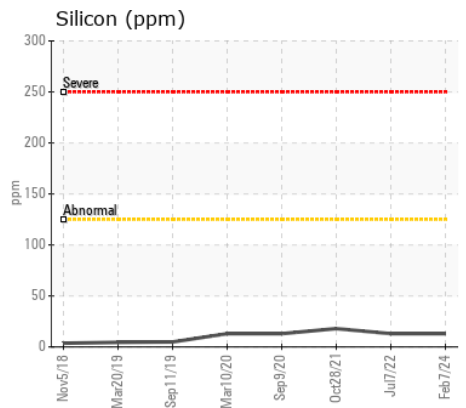
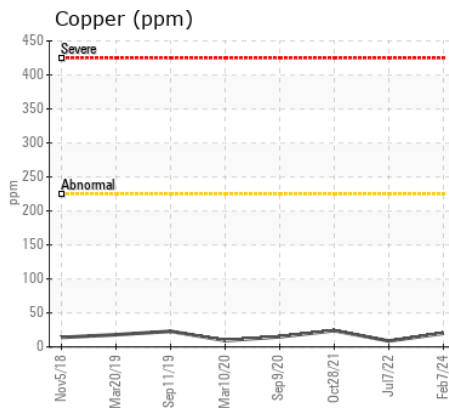
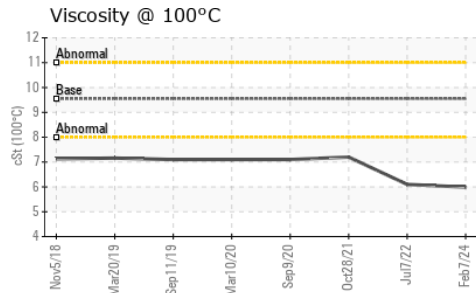
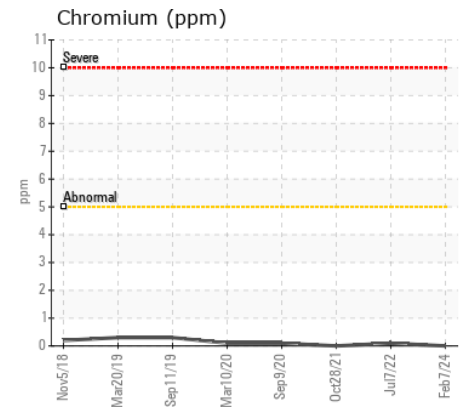
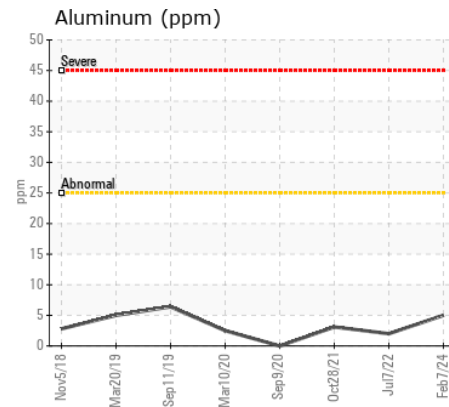
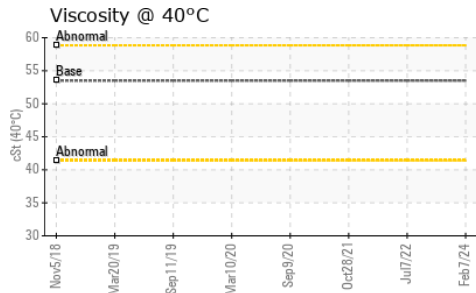
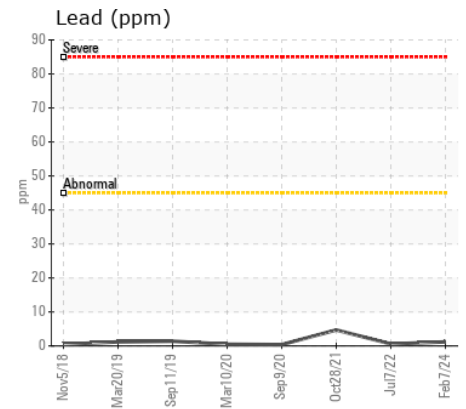
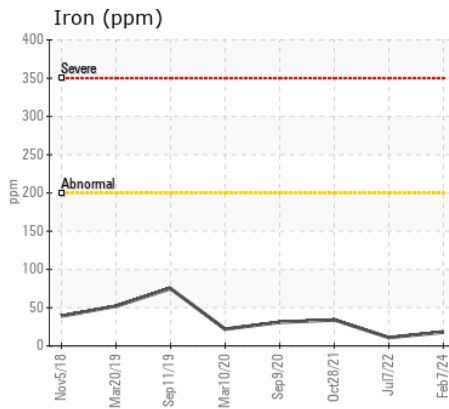
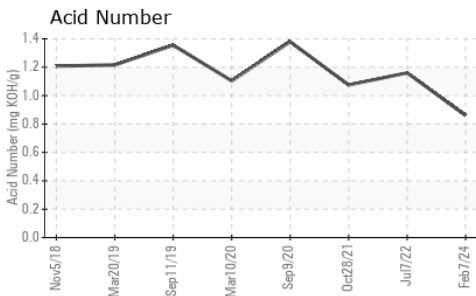
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>125	13	13	18
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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		8	10	3
Boron	ppm	ASTM D5185m		172	165	109
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	4
Manganese	ppm	ASTM D5185m		2	2	5
Magnesium	ppm	ASTM D5185m		9	15	12
Calcium	ppm	ASTM D5185m	4200	4505	4966	4140
Phosphorus	ppm	ASTM D5185m	1100	1436	1525	1301
Zinc	ppm	ASTM D5185m	2000	1640	1875	1470
Sulfur	ppm	ASTM D5185m		4753	6322	5438
Acid Number (AN)	mg KOH/g	ASTM D8045		0.86	1.16	1.075
Visc @ 40°C	cSt	ASTM D445	53.5	32.1	---	---
Visc @ 100°C	cSt	ASTM D445	9.55	5.99	6.1	7.2
Viscosity Index (VI)	Scale	ASTM D2270	164	134	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06086700 **Received** : 12 Feb 2024
Lab Number : 06086700 **Tested** : 14 Feb 2024
Unique Number : 10874145 **Diagnosed** : 15 Feb 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: KV100, VI)

COTTONWOOD COUNTY
 1355 9TH AVE
 WINDOM, MN
 US 56101
 Contact: DARRYL BARGEN

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)

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