



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  
**Diesel Engine**

Fluid  
**TRC PRO-SPEC IV XP SYN BLEND 15W40 (28 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06086725	TR05930501	TR05778364
Sample Date		Client Info		07 Feb 2024	25 Jul 2023	31 Jan 2023
Machine Age	hrs	Client Info		5981	5500	5046
Oil Age	hrs	Client Info		481	454	537
Filter Age	hrs	Client Info		481	454	536
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	>51	35	32	40
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	2	2	4
Lead	ppm	ASTM D5185m	>26	1	1	1
Copper	ppm	ASTM D5185m	>26	2	2	2
Tin	ppm	ASTM D5185m	>4	3	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

**CONTAMINATION**

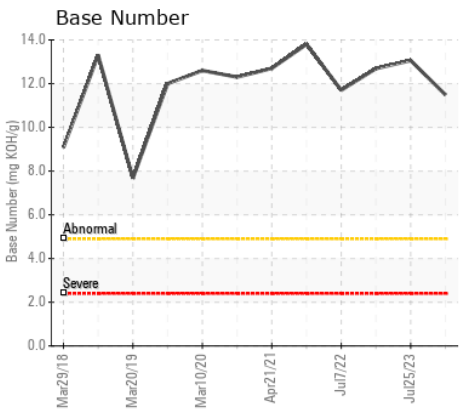
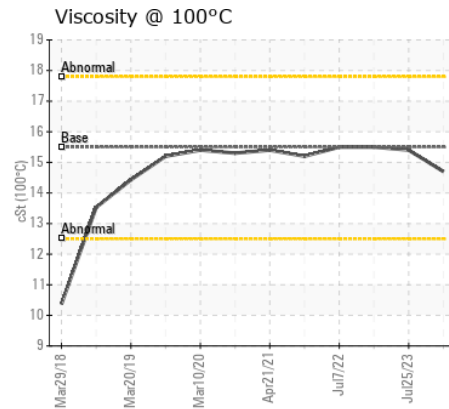
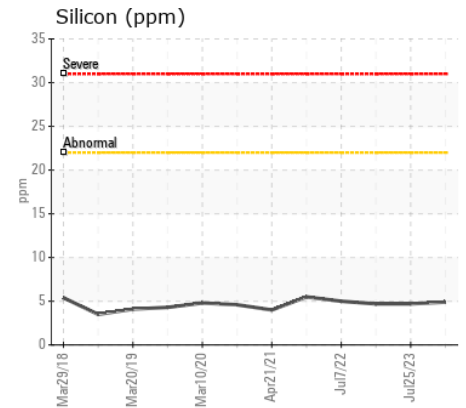
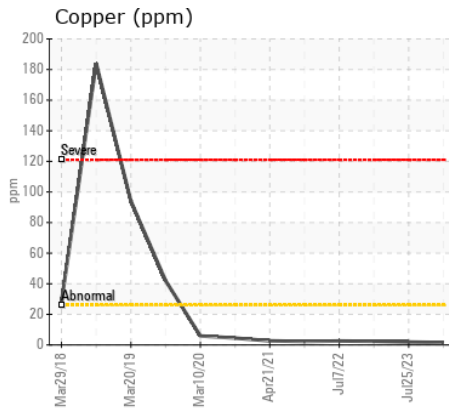
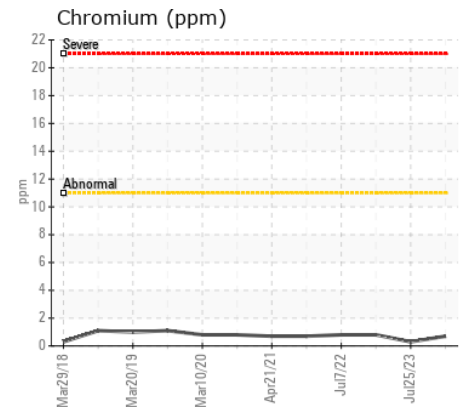
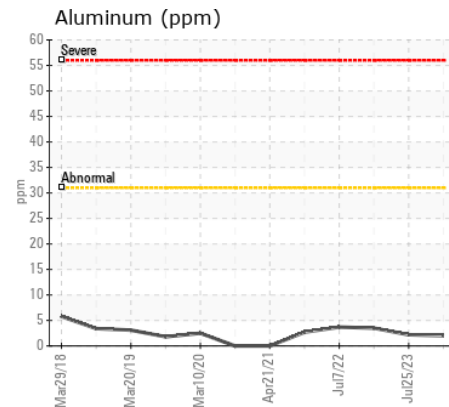
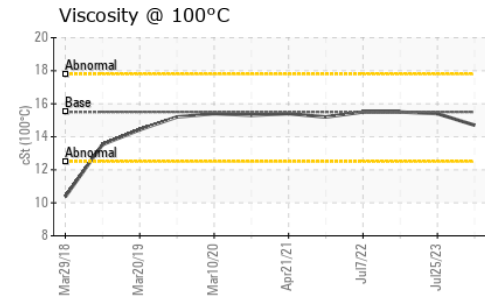
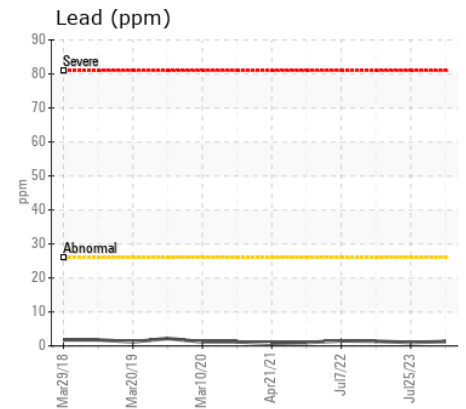
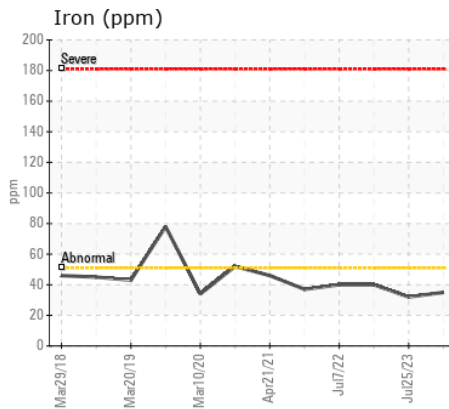
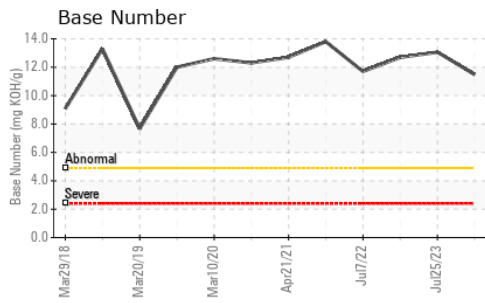
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	5	5	5
Potassium	ppm	ASTM D5185m	>20	<1	2	3
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.2	9.2	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	20.7	21.4
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	>0.21	NEG	NEG	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 D5185m	>31	2	3	4
Boron	ppm	ASTM D5185m		2	<1	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	1	4
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		30	28	77
Calcium	ppm	ASTM D5185m		3745	3935	3885
Phosphorus	ppm	ASTM D5185m		719	853	891
Zinc	ppm	ASTM D5185m		907	1065	1083
Sulfur	ppm	ASTM D5185m		3257	4404	4591
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.5	11.7	12.6
Base Number (BN)	mg KOH/g	ASTM D2896		11.49	13.06	12.69
Visc @ 100°C	cSt	ASTM D445	15.5	14.7	15.4	15.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06086725  
**Lab Number** : 06086725  
**Unique Number** : 10874170  
**Test Package** : MOB 2  
**Received** : 12 Feb 2024  
**Tested** : 13 Feb 2024  
**Diagnosed** : 13 Feb 2024 - Wes Davis

**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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