CONST

James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 450J 1T0450JXTDD255028
Component
Hydraulic System
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

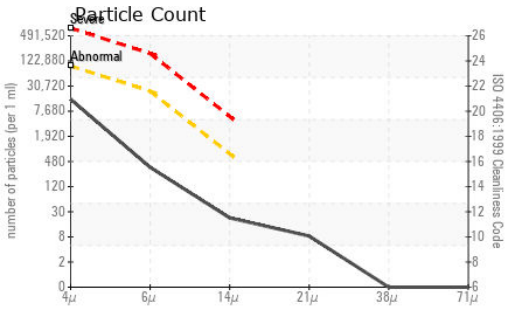
CONTAMINATION

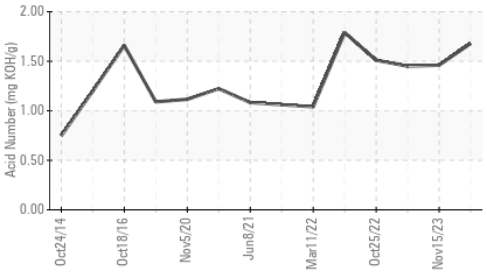
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

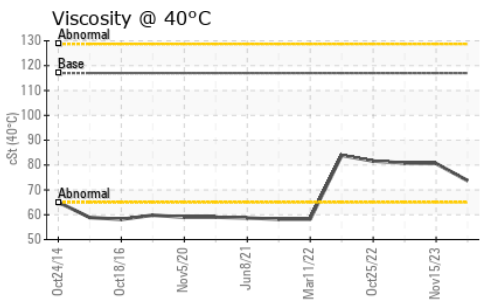
FLUID CONDITION

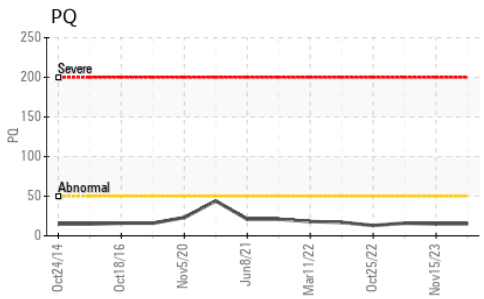
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

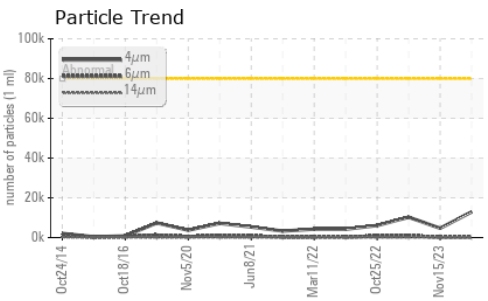
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0207770**	JR0191456	JR0157155
Sample Date		Client Info		**20 May 2024**	15 Nov 2023	08 Feb 2023
Machine Age	hrs	Client Info		**7148**	6934	6626
Oil Age	hrs	Client Info		**1248**	1034	726
Filter Age	hrs	Client Info		**1248**	1034	726
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Filter Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**NORMAL**	ABNORMAL	ABNORMAL
PQ		ASTM D8184	>50	**15**	15	16
Iron	ppm	ASTM D5185m	>23	**9**	15	13
Chromium	ppm	ASTM D5185m	>9	**<1**	1	<1
Nickel	ppm	ASTM D5185m	>5	**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>9	**8**	11	9
Lead	ppm	ASTM D5185m	>28	**0**	<1	<1
Copper	ppm	ASTM D5185m	>51	**45**	▲ 72	▲ 67
Tin	ppm	ASTM D5185m	>5	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	<1	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>31	**13**	17	15
Potassium	ppm	ASTM D5185m	>20	**<1**	3	2
Water		WC Method	>0.075	**NEG**	NEG	NEG
Particles >4µm		ASTM D7647	>80000	**12922**	4690	10261
Particles >6µm		ASTM D7647	>20000	**307**	89	1051
Particles >14µm		ASTM D7647	>640	**19**	4	70
Particles >21µm		ASTM D7647	>160	**7**	1	14
Particles >38µm		ASTM D7647	>40	**0**	0	2
Particles >71µm		ASTM D7647	>10	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	**21/15/11**	19/14/9	21/17/13
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	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	>0.075	**NEG**	▲ 0.2%	NEG
Sodium	ppm	ASTM D5185m	>21	**<1**	2	<1
Boron	ppm	ASTM D5185m		**156**	232	239
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**101**	180	180
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**447**	612	533
Calcium	ppm	ASTM D5185m		**1684**	1335	1251
Phosphorus	ppm	ASTM D5185m		**995**	899	862
Zinc	ppm	ASTM D5185m		**1122**	1154	1020
Sulfur	ppm	ASTM D5185m		**3536**	3220	2903
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.68**	1.46	1.45
Visc @ 40°C	cSt	ASTM D445	117	**73.7**	80.6	80.8

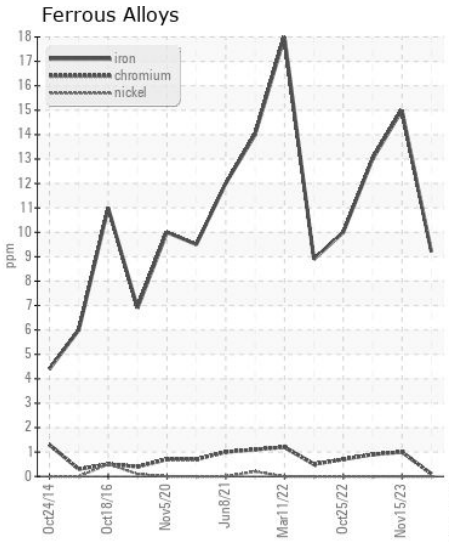


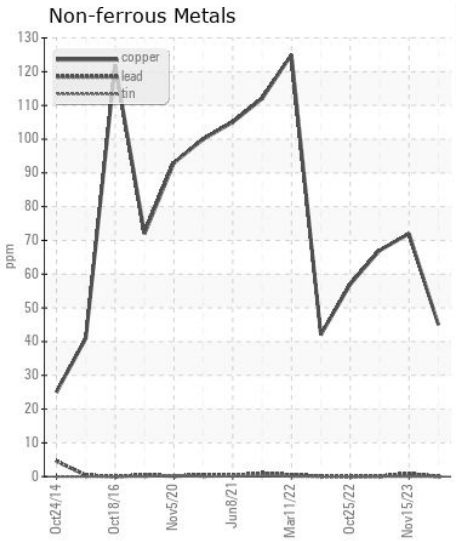


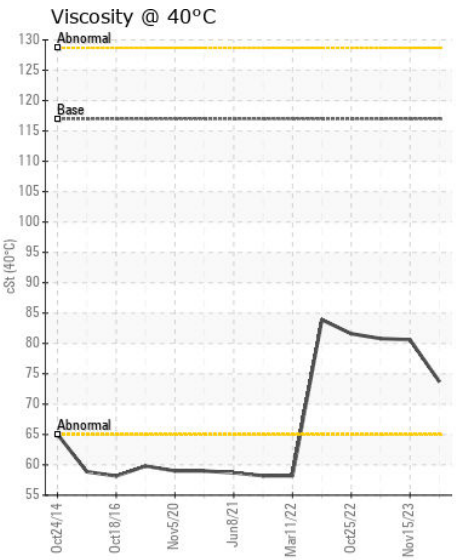


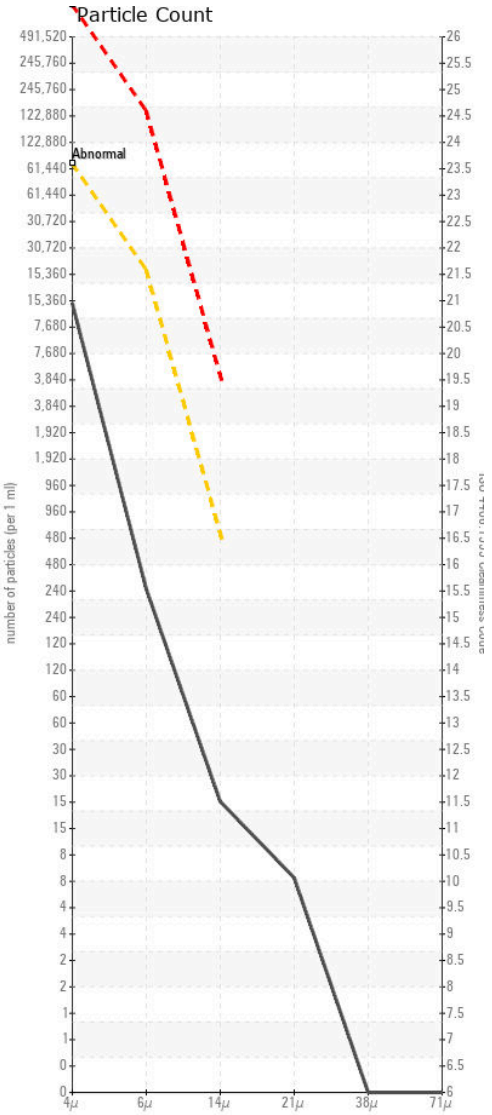


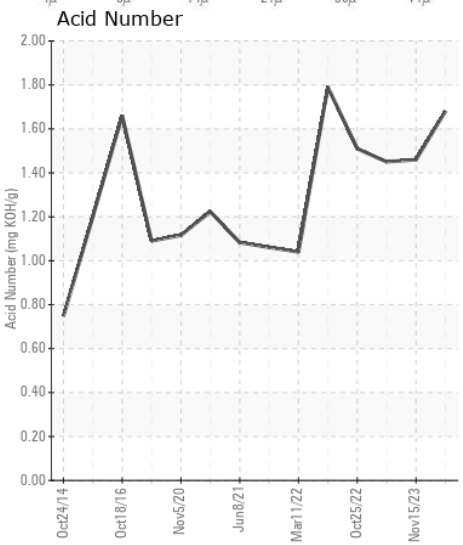












ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: JR0207770	**Received**	: 28 May 2024
Lab Number	: 06192106	**Tested**	: 29 May 2024
Unique Number	: 11048858	**Diagnosed**	: 30 May 2024 - Angela Borella
Test Package	: CONST (Additional Tests: PQ)		

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - 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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