



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W51359]
 Machine Id
JOHN DEERE 944X M02-0933 1DW944XAKPLX03759
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0200018	JR0179220	JR0199918
Sample Date		Client Info		18 Apr 2024	04 Apr 2024	28 Feb 2024
Machine Age	hrs	Client Info		605	523	330
Oil Age	hrs	Client Info		0	0	330
Filter Age	hrs	Client Info		0	0	330
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	8	43	32
Chromium	ppm	ASTM D5185m	>11	<1	2	<1
Nickel	ppm	ASTM D5185m	>5	0	1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	2	8	6
Lead	ppm	ASTM D5185m	>26	18	▲ 50	▲ 52
Copper	ppm	ASTM D5185m	>26	71	▲ 363	▲ 371
Tin	ppm	ASTM D5185m	>4	2	11	10
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

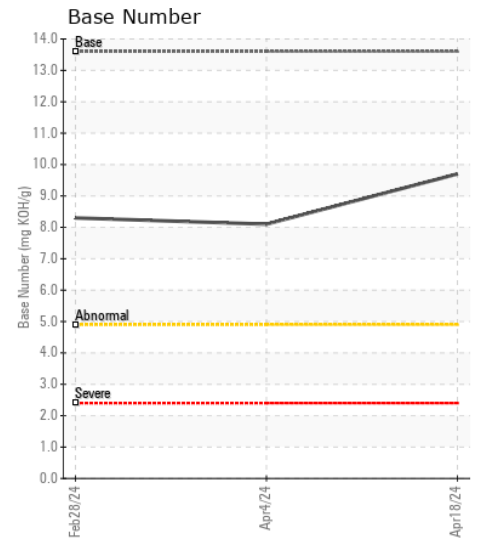
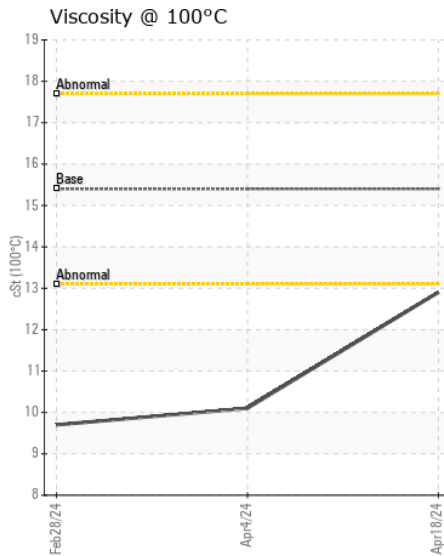
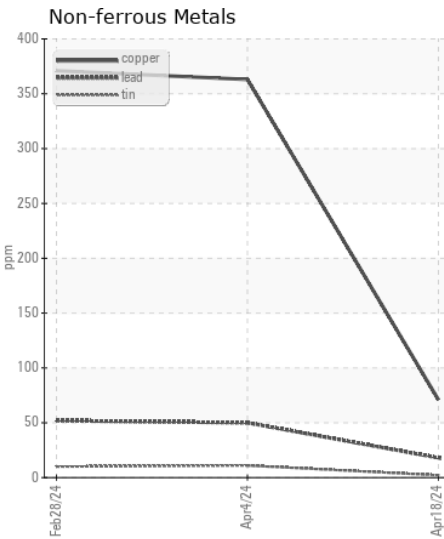
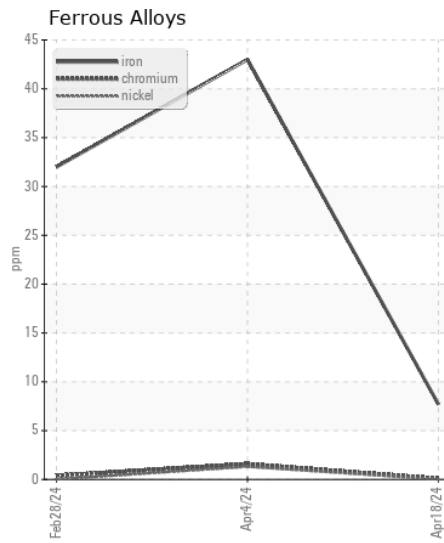
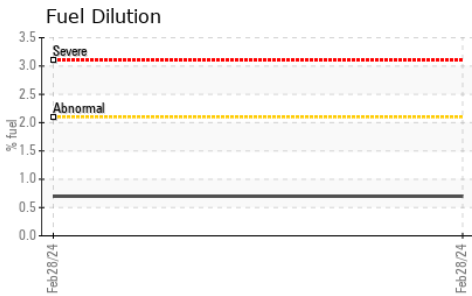
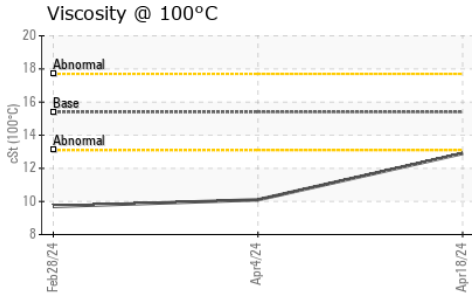
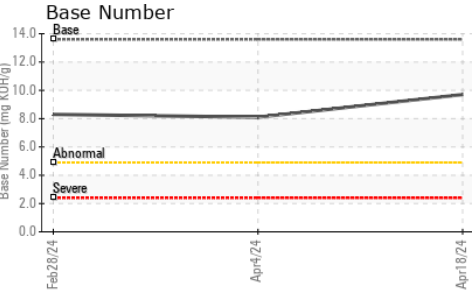
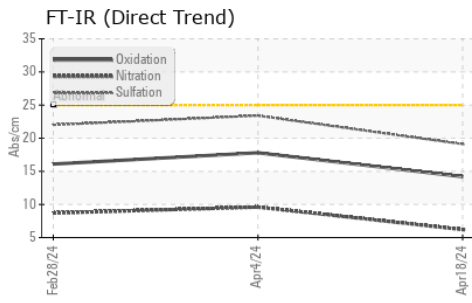
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	5	16	14
Potassium	ppm	ASTM D5185m	>20	<1	10	6
Fuel	%	ASTM D3524	>2.1	<1.0	<1.0	0.7
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.2	9.6	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	23.4	22.0
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	1	7	7
Boron	ppm	ASTM D5185m		111	97	156
Barium	ppm	ASTM D5185m		0	3	<1
Molybdenum	ppm	ASTM D5185m		85	226	236
Manganese	ppm	ASTM D5185m		2	12	12
Magnesium	ppm	ASTM D5185m		1056	814	770
Calcium	ppm	ASTM D5185m		1042	1302	1261
Phosphorus	ppm	ASTM D5185m		1065	927	833
Zinc	ppm	ASTM D5185m		1236	1084	1016
Sulfur	ppm	ASTM D5185m		3735	3064	2698
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	17.8	16.1
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.7	8.1	8.3
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	● 10.1	● 9.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0200018 **Received** : 24 Apr 2024
Lab Number : 06158847 **Tested** : 25 Apr 2024
Unique Number : 10994270 **Diagnosed** : 26 Apr 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: FuelDilution, TBN)

LUCK STONE
 19380 RICHMOND TURNPIKE
 MILFORD, VA
 US 22514
 Contact: BRYAN MORRIS
 bmorris@luckstone.com
 T: (804)400-3630
 F: x:

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)