



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area

[G14834]

Machine Id

JOHN DEERE 750L 437285

Component

Diesel Engine

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0007183	WE0006143	WE0004564
Sample Date		Client Info		10 Apr 2024	14 Dec 2023	06 Sep 2023
Machine Age	hrs	Client Info		1538	1015	670
Oil Age	hrs	Client Info		500	0	0
Filter Age	hrs	Client Info		500	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	25	14	42
Chromium	ppm	ASTM D5185m	>11	<1	<1	1
Nickel	ppm	ASTM D5185m	>5	1	2	7
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	6	4	9
Lead	ppm	ASTM D5185m	>26	5	<1	0
Copper	ppm	ASTM D5185m	>26	8	17	▲ 113
Tin	ppm	ASTM D5185m	>4	<1	<1	2
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

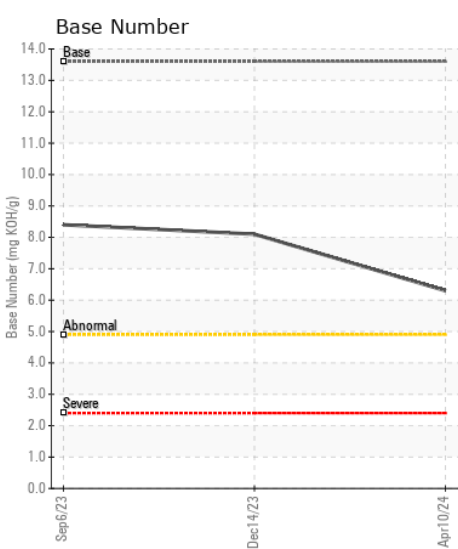
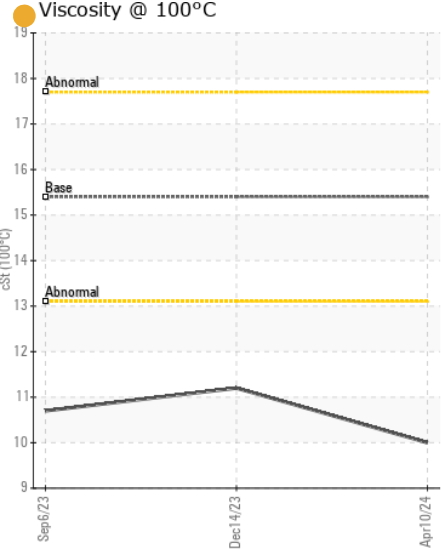
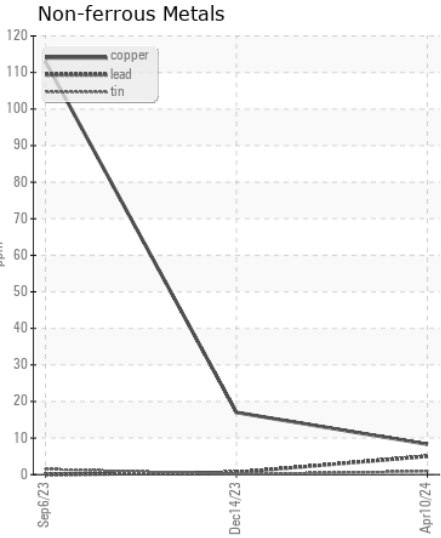
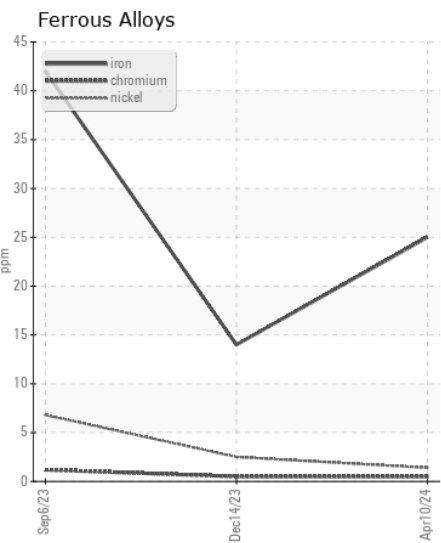
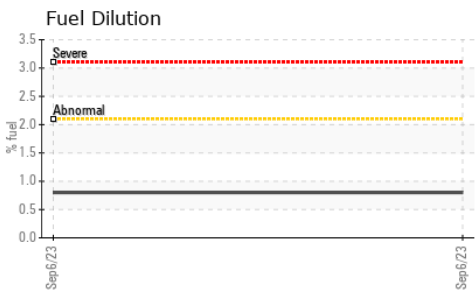
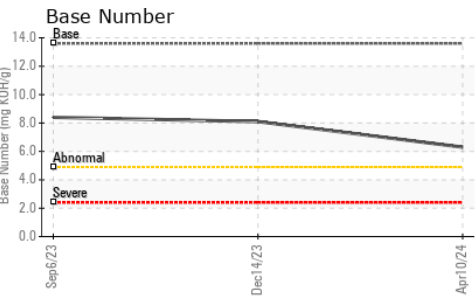
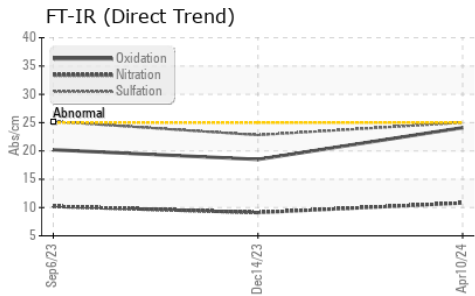
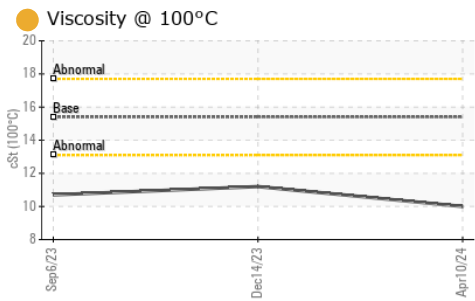
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	12	10	15
Potassium	ppm	ASTM D5185m	>20	1	2	0
Fuel	%	ASTM D3524	>2.1	<1.0	<1.0	0.8
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.6
Nitration	Abs/cm	*ASTM D7624	>20	10.8	9.1	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.0	22.8	25.2
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>31	2	0	6
Boron	ppm	ASTM D5185m		120	198	115
Barium	ppm	ASTM D5185m		<1	0	2
Molybdenum	ppm	ASTM D5185m		225	240	230
Manganese	ppm	ASTM D5185m		1	<1	4
Magnesium	ppm	ASTM D5185m		792	736	820
Calcium	ppm	ASTM D5185m		1217	1254	1497
Phosphorus	ppm	ASTM D5185m		823	773	843
Zinc	ppm	ASTM D5185m		964	980	1019
Sulfur	ppm	ASTM D5185m		2929	2916	2750
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.1	18.5	20.2
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	6.3	8.1	8.4
Visc @ 100°C	cSt	ASTM D445	15.4	● 10.0	● 11.2	● 10.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0007183
Lab Number : 06149264
Unique Number : 10979342
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

WARRIOR TRACTOR AND EQUIPMENT - GRAYSVILLE
 4308 WATER TRAIL
 GRAYSVILLE, AL
 US 35073
 Contact: BEN BYRKET
 bbyrket@warriortractor.com
 T: (205)675-9045
 F:

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)