



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 324L PML-4 (S/N 052609)
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (3 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CL0005192	CL0004989	CL0004748
Sample Date		Client Info		19 Feb 2024	04 Dec 2023	19 Sep 2023
Machine Age	hrs	Client Info		5250	4960	4620
Oil Age	hrs	Client Info		290	0	0
Filter Age	hrs	Client Info		0	0	0
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	>50	<1	2	5
Chromium	ppm	ASTM D5185m	>11	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	4	<1
Lead	ppm	ASTM D5185m	>26	0	0	<1
Copper	ppm	ASTM D5185m	>13	0	0	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

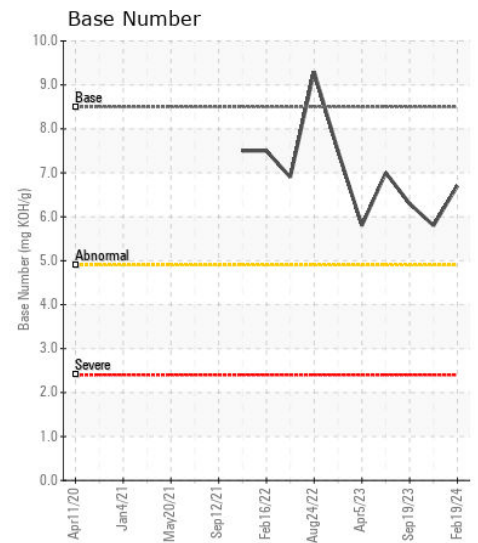
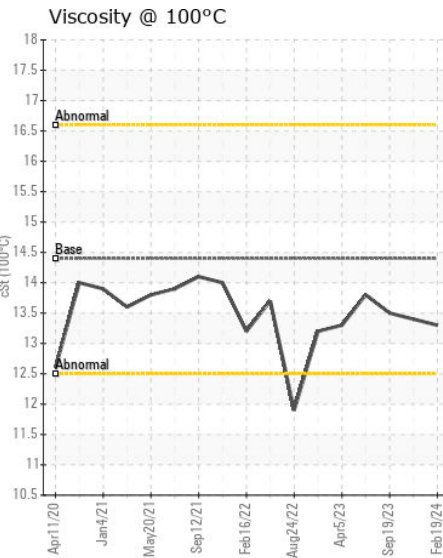
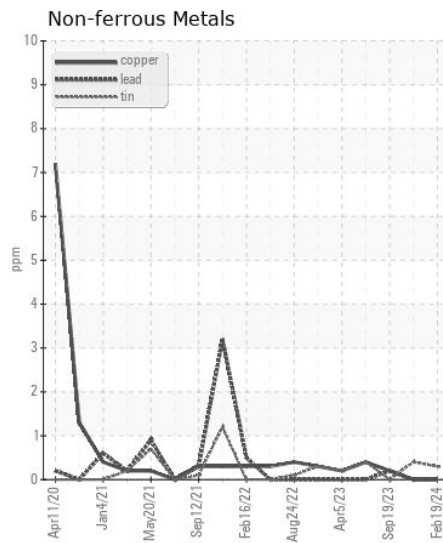
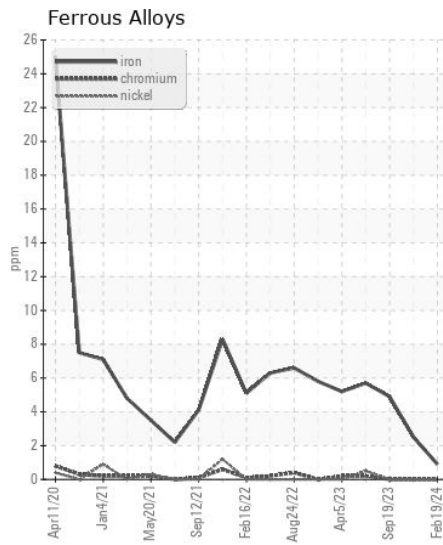
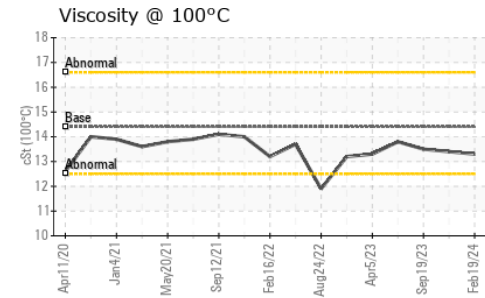
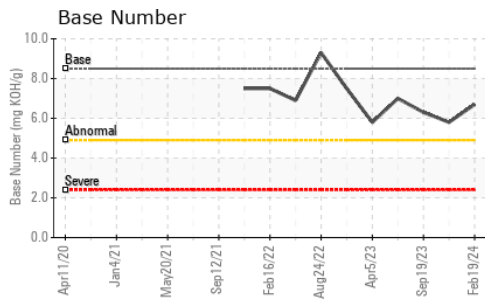
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>81	3	4	4
Potassium	ppm	ASTM D5185m	>20	<1	1	2
Fuel		WC Method	>1.6	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.9	9.2	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	18.4	19.1
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	>216	1	<1	4
Boron	ppm	ASTM D5185m	250	63	59	44
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	81	85	87
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	450	17	18	25
Calcium	ppm	ASTM D5185m	3000	2049	2106	2338
Phosphorus	ppm	ASTM D5185m	1150	1001	1047	1077
Zinc	ppm	ASTM D5185m	1350	1182	1265	1324
Sulfur	ppm	ASTM D5185m	4250	3562	3868	4838
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	14.6	15.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.7	5.8	6.3
Visc @ 100°C	cSt	ASTM D445	14.4	13.3	13.4	13.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : CL0005192 **Received** : 28 Feb 2024
Lab Number : 06103624 **Tested** : 29 Feb 2024
Unique Number : 10901854 **Diagnosed** : 29 Feb 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

PEDULLA
 146 MCLELLAND
 MOORESVILLE, NC
 US 28115
 Contact: LARRY

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)

T:
F: