

## [05W47555] JOHN DEERE PM061171

## Diesel Engine

## JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (28 QTS)

JUHN DEERE ENGINE UIL PLUS 50 II 15W40 (A	20 (13)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0218319	JR0190067	JR0176364
	Sample Date		Client Info		21 Jun 2024	23 Oct 2023	16 Jun 2023
	Machine Age	hrs	Client Info		2994	2451	1947
	Oil Age	hrs	Client Info		543	0	490
	Filter Age	hrs	Client Info		543	0	490
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	20	14	20
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	4	2	4
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>31	3	4	3
	Lead	ppm	ASTM D5185m	>26	<1	<1	0
	Copper	ppm	ASTM D5185m		8	2	4
	Tin	ppm	ASTM D5185m	>4	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8	9	11
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	4	3	4
	Fuel	%	ASTM D3524	>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	0.5	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	9.3	9.1	9.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	22.4	23.3
	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	Sodium	ppm	ASTM D5185m	>31	1	1	5
	Boron	ppm	ASTM D5185m		129	171	234
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		2	4	4
	Molybdenum	ppm	ASTM D5185m		202	257	351
	Manganese	ppm	ASTM D5185m		1	<1	1
	Magnesium	ppm	ASTM D5185m		600	723	1117
	Calcium	ppm	ASTM D5185m		1819	1528	2110
	Phosphorus	ppm	ASTM D5185m		898	986	1288
	Zinc	ppm	ASTM D5185m		1158	1146	1563
	Sulfur	ppm	ASTM D5185m		3212	4070	4526
	Oxidation	Abs/.1mm	*ASTM D7414		15.9	16.2	16.7
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.0	8.5	8.2
		0.				10.0	10.0

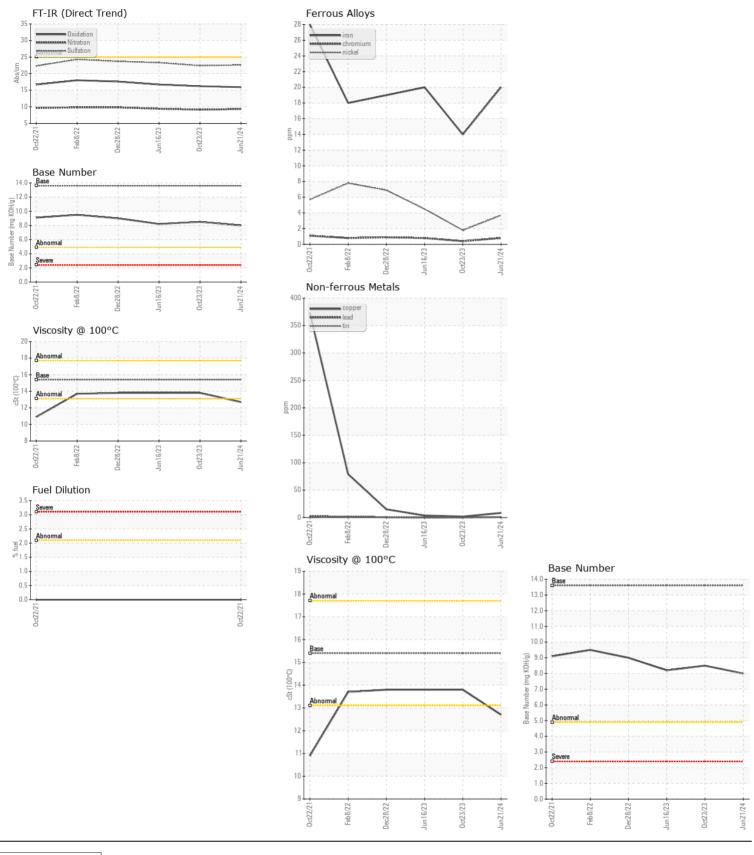
Visc @ 100°C cSt

ASTM D445 15.4

13.8

13.8

12.7



FITZGERALD EXCAVATING Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0218319 Received : 25 Jun 2024 PO BOX 2168 Lab Number : 06219536 Tested : 26 Jun 2024 WINCHESTER, VA Unique Number : 11097733 Diagnosed : 26 Jun 2024 - Don Baldridge US 22604 Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: Service Manager Certificate L2367 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. T: F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: TECHNICIAN ACCOUNT Page 2 of 2