

Store 9 - Marietta PETERBILT 567 1XPCP4EX9PD810461 **Diesel Engine**

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (12 GAL)

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (IZ GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0048256	LEC0047249	LEC0044900
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates of oil and filter time.	Sample Date		Client Info		11 Mar 2024	04 Jan 2024	08 Nov 2023
	Machine Age	mls	Client Info		146461	114921	99350
	Oil Age	mls	Client Info		16540	15571	16444
	Filter Age	mls	Client Info		16540	15571	16444
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>110	19	21	18
WEAR	Chromium	ppm	ASTM D5185m		1	1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	<1
	Titanium	ppm	ASTM D5185m	~ _	<1	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m		7	6	8
	Lead	ppm	ASTM D5185m		, <1	1	1
	Copper	ppm	ASTM D5185m		1	<1	1
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m	100	•	0	
CONTAMINATION	Potassium	ppm	ASTM D5185m		8 8	9	9 13
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	ppm %	ASTM D5185III ASTM D3524		0.3	9 <1.0	<1.0
	Water	/0	WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<u>\</u> 3	0.5	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	8.7	9.0
	Sulfation	Abs/.1mm	*ASTM D7024		22.6	22.3	22.7
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	0				•		
	Sodium	ppm	ASTM D5185m		0	0	0
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		133	220	215
	Barium	ppm	ASTM D5185m		0	0	<1
	Molybdenum	ppm	ASTM D5185m		168	235	270
	Manganese	ppm	ASTM D5185m		<1 542	1	<1 804
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		542 2209	771 1445	804 1529
	Phosphorus	ppm	ASTM D5185m ASTM D5185m		963	814	892
	Zinc	ppm	ASTM D5185m		963 1185	1078	1123
	Sulfur	ppm	ASTM D5185m ASTM D5185m			3434	3058
	Oxidation	ppm		> 2F	3437		
	Base Number (BN)	Abs/.1mm	*ASTM D7414		15.4 8.4	16.3 8.2	16.7 8.1
				10.0	0.4	0.2	10.7

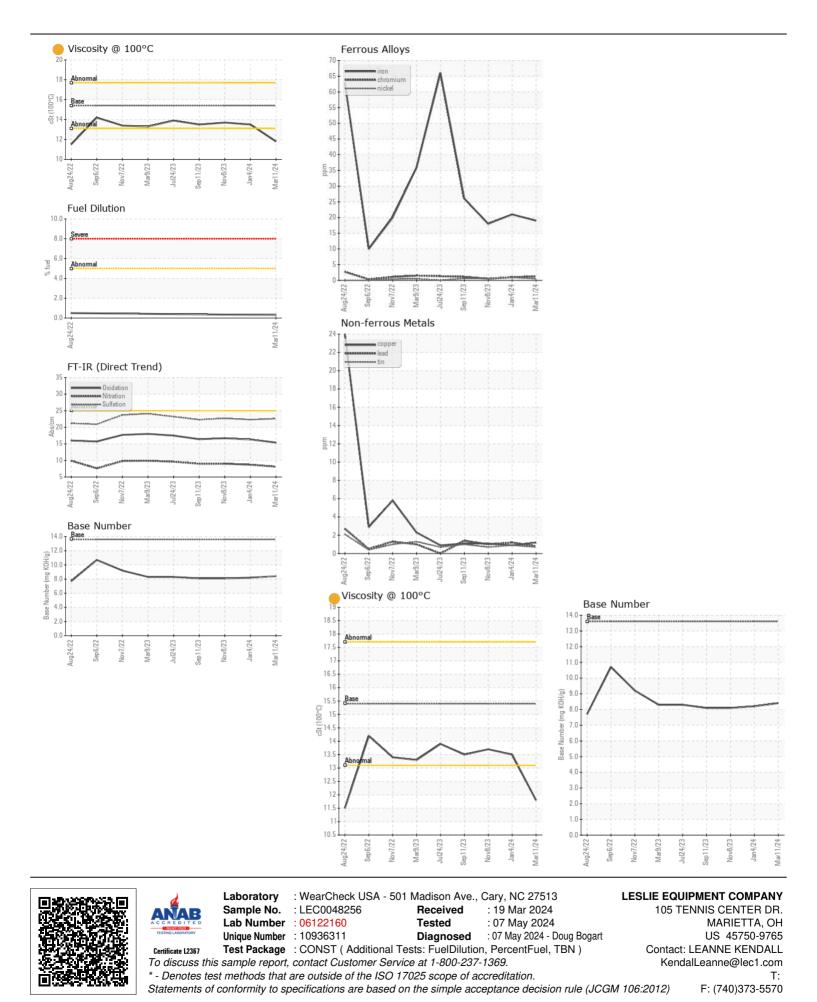
Visc @ 100°C cSt

13.5

13.7

11.8

ASTM D445 15.4



Submitted By: JOHN MARTIN Page 2 of 2