

Area



[05W46281] JOHN DEERE 135G 1FF135GXKEE400742 Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (18 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0214654	JR0174478	JR0162756
	Sample Date		Client Info		22 Apr 2024	14 Jun 2023	16 Feb 2023
	Machine Age	hrs	Client Info		7132	6070	5562
	Oil Age	hrs	Client Info		584	508	926
	Filter Age	hrs	Client Info		584	508	926
	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	>51	10	8	8
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	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		12	11	10
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m	>26	5	1	3
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<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	>22	7	8	6
	Potassium	ppm	ASTM D5185m		0	<1	<1
	Fuel	%	ASTM D3524		<1.0	<1.0	<1.0
	Water	, -	WC Method		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	8.9	8.9	8.8
	Sulfation	Abs/.1mm	*ASTM D7415		22.6	22.7	21.4
	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	2	2
	Boron	ppm	ASTM D5185m	201	219	240	241
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		0	0	<1
	Molybdenum	ppm	ASTM D5185m		255	266	246
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		848	915	806
	Calcium	ppm	ASTM D5185m		1591	1607	1415
	Phosphorus	ppm	ASTM D5185m		946	949	827
	Zinc	ppm	ASTM D5185m		1122	1170	1012
	Sulfur	ppm	ASTM D5185m		3431	3825	3373
	Oxidation	Abs/.1mm	*ASTM D310311	>25	17.6	18.2	15.9
	Base Number (BN)				9.3	9.0	8.9
		ing itoriy	10111102030	10.0	0.0	0.0	0.0

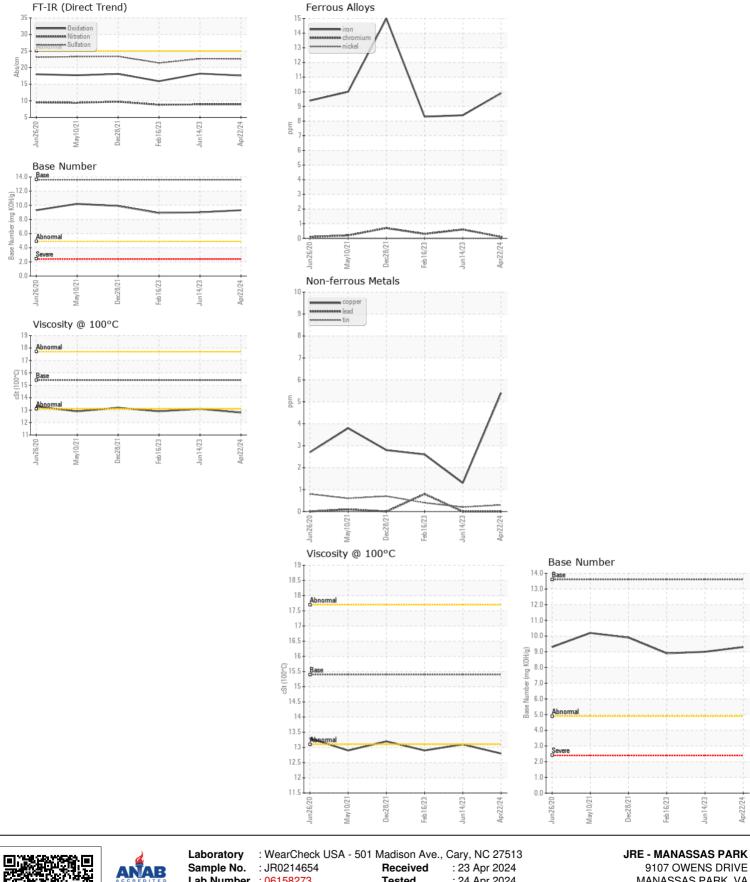
Visc @ 100°C cSt

ASTM D445 15.4

13.1

12.9

12.8



Lab Number : 06158273 Tested MANASSAS PARK, VA : 24 Apr 2024 Unique Number : 10993696 Diagnosed : 24 Apr 2024 - Jonathan Hester US 20111 Test Package : CONST (Additional Tests: FuelDilution, TBN) Contact: DON VEST Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dvest@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (703)631-8500 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (703)631-4715

Submitted By: TECHNICIAN ACCOUNT Page 2 of 2