

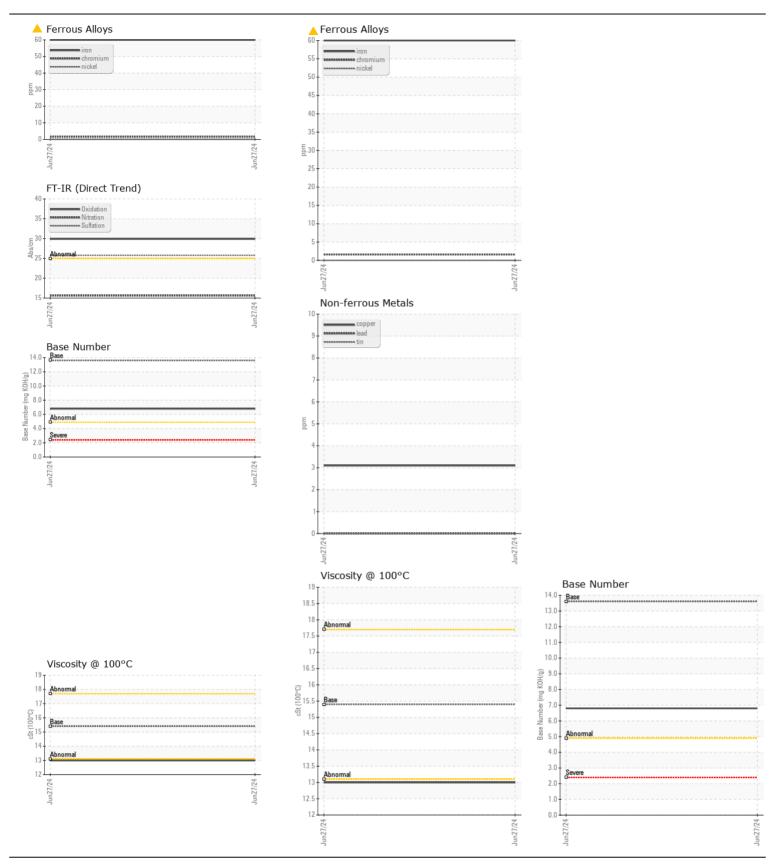
[W52840] Machine Id JOHN DEERE 50G 1FF050GXTGH284109 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0224384		
	Sample Date		Client Info		27 Jun 2024		
	Machine Age	hrs	Client Info		3162		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.	Iron	ppm	ASTM D5185m		▲ 60		
	Chromium	ppm	ASTM D5185m		2		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		7		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m	>4	0		
	Vanadium	ppm	ASTM D5185m	NONE	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	16		
	Potassium	ppm	ASTM D5185m	>20	2		
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	1.1		
	Nitration	Abs/cm	*ASTM D7624	>20	15.6		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.8		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	5		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		30		
	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m		57		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		554		
	Calcium	ppm	ASTM D5185m		1855		
	Phosphorus	ppm	ASTM D5185m		809		
	Zinc	ppm	ASTM D5185m		957		
	Sulfur	ppm	ASTM D5185m		2768		
	Oxidation	Abs/.1mm	*ASTM D7414		29.9		
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	6.8		

Visc @ 100°C cSt

ASTM D445 15.4

13.0



JRE - ASHLAND Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0224384 Received : 28 Jun 2024 11047 LEADBETTER RD Lab Number : 06223265 Tested ASHLAND, VA : 30 Jun 2024 Unique Number : 11101462 Diagnosed : 30 Jun 2024 - Don Baldridge US 23005 Test Package : CONST (Additional Tests: FuelDilution, TBN) Contact: DAVID ZIEG Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dzieg@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (804)798-6001 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (804)798-0292

Contact/Location: DAVID ZIEG - JAMASH Page 2 of 2