WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

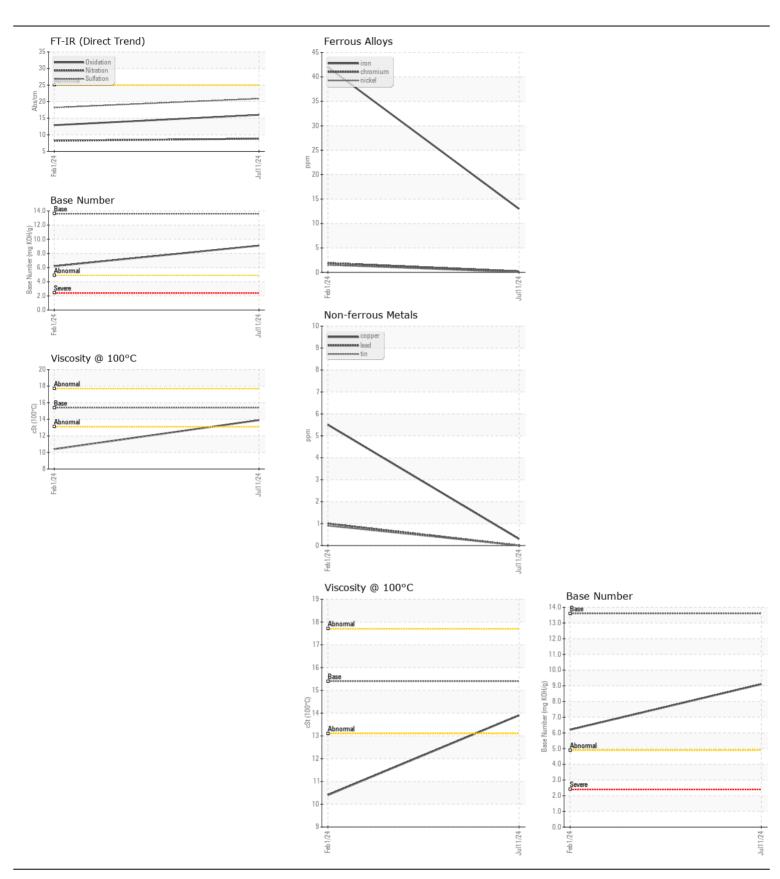
[47942]

JOHN DEERE 85G 1FF085GXJNJ024386

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0218568	JR0203359	
	Sample Date		Client Info		11 Jul 2024	01 Feb 2024	
	Machine Age	hrs	Client Info		925	595	
	Oil Age	hrs	Client Info		330	595	
	Filter Age	hrs	Client Info		0	595	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	13	42	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>11	<1	2	
	Nickel	ppm	ASTM D5185m	>5	0	2	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>31	4	5	
	Lead	ppm	ASTM D5185m	>26	0	1	
	Copper	ppm	ASTM D5185m	>26	<1	6	
	Tin	ppm	ASTM D5185m	>4	0	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	15	47	
OONTAMINATION	Potassium	ppm	ASTM D5185m		23	<u>^</u> 207	
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	1.4	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	, 0.2	NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.3	0.4	
	Nitration	Abs/cm	*ASTM D7624		8.8	8.2	
	Sulfation	Abs/.1mm	*ASTM D7415		20.9	18.2	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	\31	3	9	
	Boron	ppm	ASTM D5185m	701	250	203	
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		<1	0	
	Molybdenum	ppm	ASTM D5185m		246	183	
	Manganese	ppm	ASTM D5185m		<1	1	
	Magnesium	ppm	ASTM D5185m		821	20	
	Calcium	ppm	ASTM D5185m		1522	2302	
	Phosphorus	ppm	ASTM D5185m		919	682	
	Zinc	ppm	ASTM D5185m		1058	835	
	Sulfur	ppm	ASTM D5185m		3448	2422	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	12.9	
	Base Number (BN)		ASTM D2896		9.1	6.2	
	Visc @ 100°C	cSt	ASTM D445		13.9	10.4	





Certificate L2367

Laboratory Sample No.

Lab Number : 06235707 Unique Number : 11124541

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0218568

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received **Tested**

Diagnosed Test Package : CONST (Additional Tests: TBN)

: 16 Jul 2024 : 16 Jul 2024 - Wes Davis

: 15 Jul 2024

JRE - MANASSAS PARK 9107 OWENS DRIVE MANASSAS PARK, VA US 20111

Contact: DON VEST dvest@jamesriverequipment.com T: (703)631-8500

* - 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)