WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Area

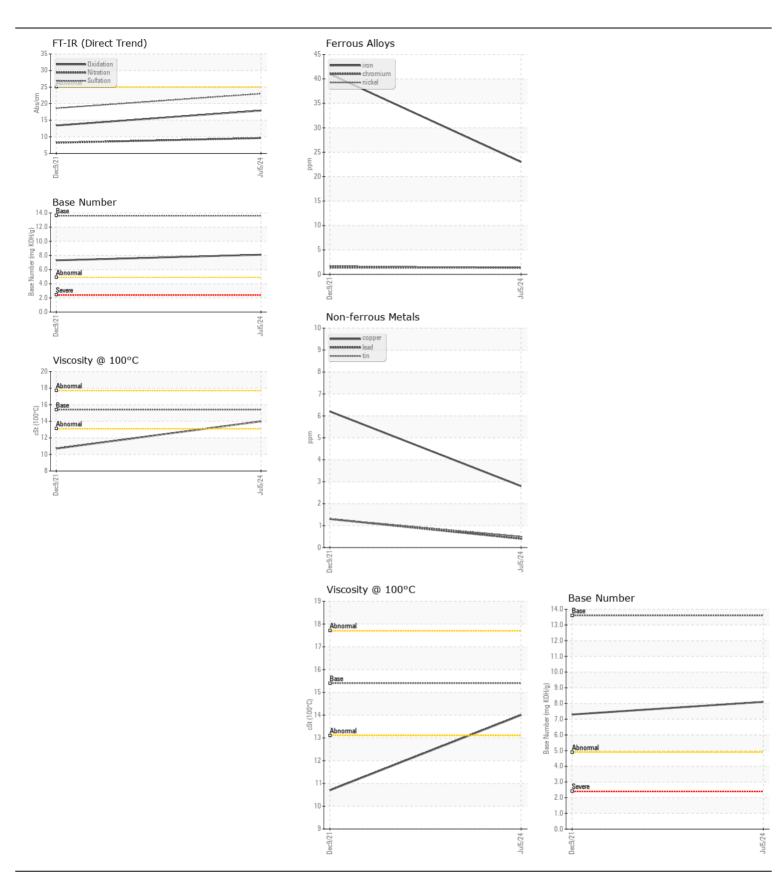
[VA EXCAVATION]

JOHN DEERE 85G 1FF085GXJMJ022275 (S/N 1FF085GXMJM022275)

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0211866	JR0107423	
	Sample Date		Client Info		05 Jul 2024	09 Dec 2021	
	Machine Age	hrs	Client Info		1178	486	
	Oil Age	hrs	Client Info		500	0	
	Filter Age	hrs	Client Info		500	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	23	41	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	1	1	
	Nickel	ppm	ASTM D5185m	>5	1	2	
	Titanium	ppm	ASTM D5185m		1	<1	
	Silver	ppm	ASTM D5185m	>3	<1	0	
	Aluminum	ppm	ASTM D5185m	>31	8	4	
	Lead	ppm	ASTM D5185m	>26	<1	1	
	Copper	ppm	ASTM D5185m	>26	3	6	
	Tin	ppm	ASTM D5185m	>4	<1	1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	21	39	
	Potassium	ppm	ASTM D5185m	>20	24	<u></u> 193	
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	0.9	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.5	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	9.6	8.2	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	18.6	
	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 The PN years in indicates that there is quitable all all inits years in its the	Sodium	ppm	ASTM D5185m	>31	2	9	
	Boron	ppm	ASTM D5185m		188	175	
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	
	Molybdenum	ppm	ASTM D5185m		256	173	
	Manganese	ppm	ASTM D5185m		1	1	
	Magnesium	ppm	ASTM D5185m		848	32	
	Calcium	ppm	ASTM D5185m		1551	2536	
	Phosphorus	ppm	ASTM D5185m		956	639	
	Zinc	ppm	ASTM D5185m		1202	830	
	Sulfur	ppm	ASTM D5185m		3242	2221	
	Oxidation	Abs/.1mm	*ASTM D7414		17.9	13.4	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.1	7.3	
	Visc @ 100°C	cSt	ASTM D445	15 /	14.0	10.7	







Certificate L2367

Laboratory Sample No. Unique Number : 11113439

Lab Number : 06229946

: JR0211866

Test Package : CONST (Additional Tests: TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

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

: 08 Jul 2024 : 09 Jul 2024 Diagnosed

: 09 Jul 2024 - Wes Davis

ASHLAND, VA Contact: DAVID ZIEG

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. dzieg@jamesriverequipment.com T: (804)798-6001

US 23005

JRE - ASHLAND

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