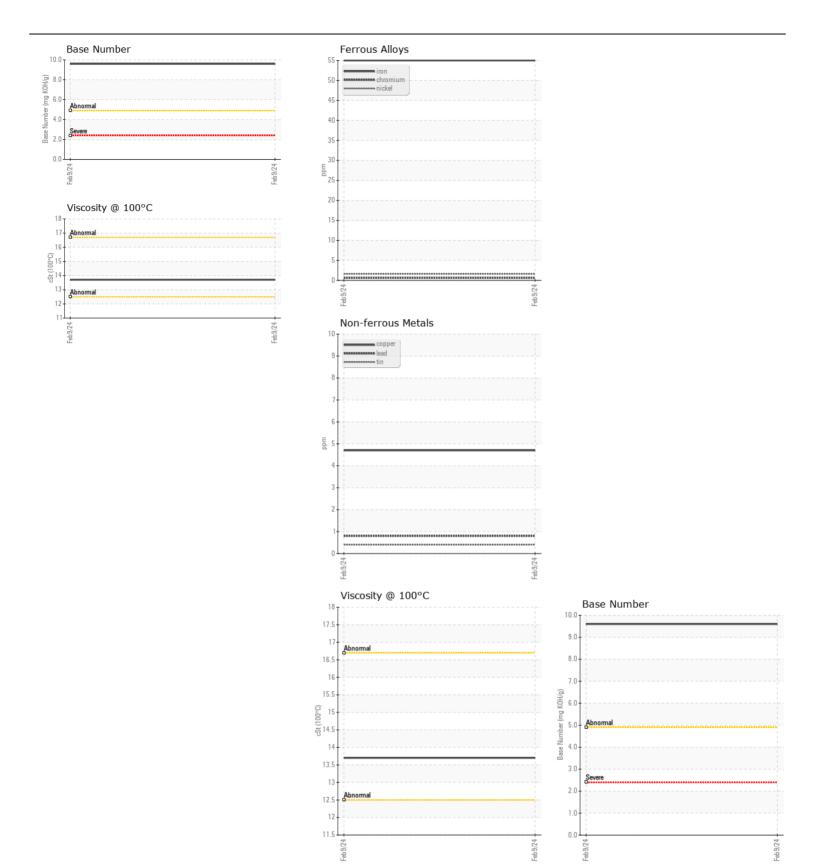
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

JOHN DEERE 648L 1DW648LBTKF694154

Component Diesel Engine

Inot provided (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0162273		
	Sample Date		Client Info		09 Feb 2024		
	Machine Age	hrs	Client Info		6980		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
MEAD	Iron	nnm	ASTM D5185m	. 51	E E		
WEAR All component wear rates are normal.	Iron Chromium	ppm	ASTM D5185m	-	55 <1		
	Nickel	ppm	ASTM D5185m		2		
	Titanium	ppm	ASTM D5185m	>5	<1		
	Silver		ASTM D5185m	~3	0		
	Aluminum	ppm	ASTM D5185m		7		
	Lead	ppm	ASTM D5185m	>26	, <1		
	Copper	ppm	ASTM D5185m		5		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	12		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3		
	Fuel		WC Method	>2.1	<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	6.2		
	Sulfation	Abs/.1mm	*ASTM D7415		19.9		
	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		
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	<1		
	Boron	ppm	ASTM D5185m		425		
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		15		
	Molybdenum	ppm	ASTM D5185m		358		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m	_	1117		
	Calcium	ppm	ASTM D5185m		1898		
	Phosphorus	ppm	ASTM D5185m		1310		
	Zinc	ppm	ASTM D5185m		1497		
	Sulfur	ppm	ASTM D5185m		5061		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1		
	Base Number (BN)	mg KOH/g	ASTM D2896		9.6		
	Visc @ 100°C	cSt	ASTM D445		13.7		





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06085706

Unique Number : 10873151

: JR0162273 Received

Tested Diagnosed Test Package : CONST (Additional Tests: TBN)

: 12 Feb 2024 : 12 Feb 2024 : 13 Feb 2024 - Jonathan Hester 305 NORTH MAIN STREET MOUNT GILEAD, NC US 27306

Contact: ADAM CRUMP adam.crump@jamesriverequipment.com

JRE - MOUNT GILEAD

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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (910)439-4568

Contact/Location: ADAM CRUMP - JAMMOUJR

T: