WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

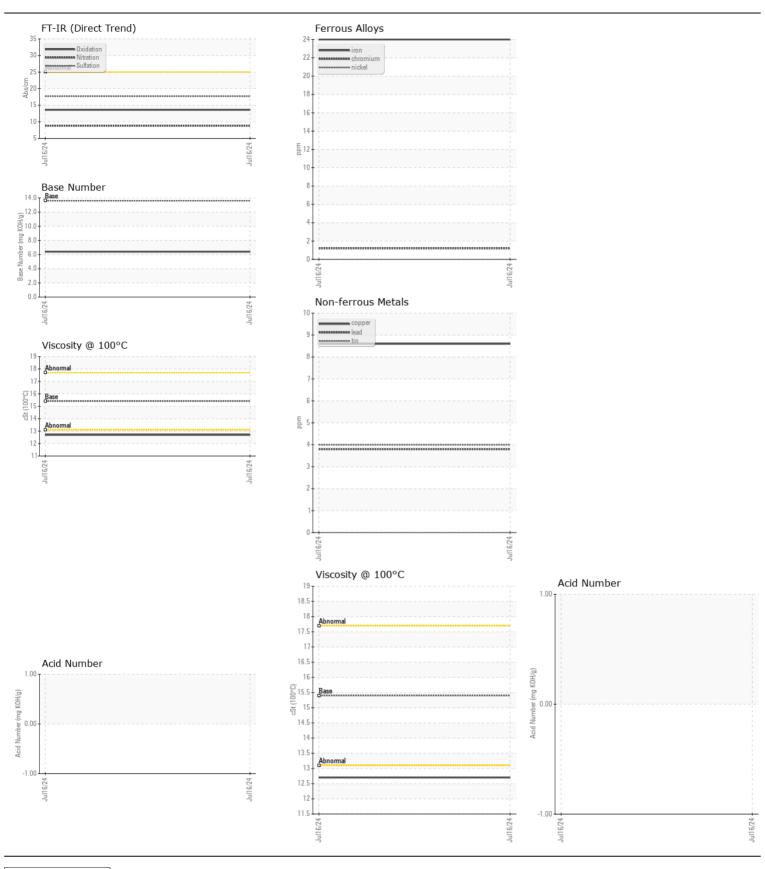
[W68517]

## **HAMM HC 200I C WGH0H256CHAA00118**

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (4 GAL)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0220169		
Sample Date		Client Info		16 Jul 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		Changed		
Sample Status				NORMAL		
Iron	nnm	ASTM D5185m	>100	24		
			77			
			. 2			
			>10			
			NONE	_		
Yellow Metal	scalar	"Visuai	NONE	NONE		
Silicon	ppm	ASTM D5185m	>25	23		
Potassium	ppm	ASTM D5185m	>20	6		
Fuel	%	ASTM D3524	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	8.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7		
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		
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
Sodium	nnm	AQTM DE195m		2		
				_		
•						
-						
Zinc	ppm	ASTM D5185m		1258		
0 11						
Sulfur	ppm	ASTM D5185m	0.5	5023		
Oxidation	Abs/.1mm	*ASTM D5185m *ASTM D7414 ASTM D2896		13.6 6.4		
	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status  Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Yellow Metal Silicon Potassium Fuel Water Glycol Soot % Nitration Sulfation Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	Sample Number Sample Date Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status  Iron ppm Chromium ppm Nickel ppm Titanium ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Yellow Metal scalar Silicon ppm Fuel % Water Glycol Soot % % Nitration Abs/cm Sulfation Abs/.1mm Silt scalar Sand/Dirt scalar Appearance scalar Codor scalar Emulsified Water Sodium ppm Boron ppm Manganese ppm Magnesium ppm Calcium ppm Calcium ppm Phosphorus	Sample Number Sample Date Machine Age Oil Age hrs Client Info Eta  *Visual	Sample Number Sample Date Client Info Machine Age hrs Client Info Oil Age hrs Client Info Client Info Oil Age hrs Client Info Filter Age Oil Changed Client Info Filter Changed Sample Status  Iron Ppm ASTM D5185m Vickel Ppm ASTM D5185m Silver Ppm ASTM D5185m Silver Ppm ASTM D5185m Silver Ppm ASTM D5185m ASTM D5185m Silver Ppm ASTM D5185m Silver Ppm ASTM D5185m ASTM D5185m Silver Ppm ASTM D5185m Vanadium Ppm ASTM D5185m Vanadium Ppm ASTM D5185m Vhite Metal Scalar Visual NONE Vellow Metal Scalar Visual NONE Silicon Ppm ASTM D5185m Vone Volume Vellow Metal Scalar Visual NONE Visual NONE Silicon Ppm ASTM D5185m Vone Volume	Sample Number         Client Info         JR0220169           Sample Date         Client Info         16 Jul 2024           Machine Age         hrs         Client Info         0           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         Client Info         N/A           Iron         ppm         ASTM D5185m         >100           Sample Status         NORMAL           Iron         ppm         ASTM D5185m         >20         1           Nickel         ppm         ASTM D5185m         >20         1           Nickel         ppm         ASTM D5185m         >20         1           Silver         ppm         ASTM D5185m         >3         <1	Sample Number   Sample Date   Client Info   16 Jul 2024





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06239922

: JR0220169 Unique Number : 11128756

Received **Tested** 

: 18 Jul 2024 : 19 Jul 2024 Diagnosed

: 19 Jul 2024 - Jonathan Hester

JRE - CHARLOTTE 9550 STATESVILLE ROAD

CHARLOTTE, NC US 28269

Test Package : CONST (Additional Tests: FuelDilution, KV40, PQ, PrtCount, TAN Man, CBNtact: CHARLOTTE SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

myoung@jamesriverequipment.com T: (704)597-0211

\* - 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: (704)596-6198