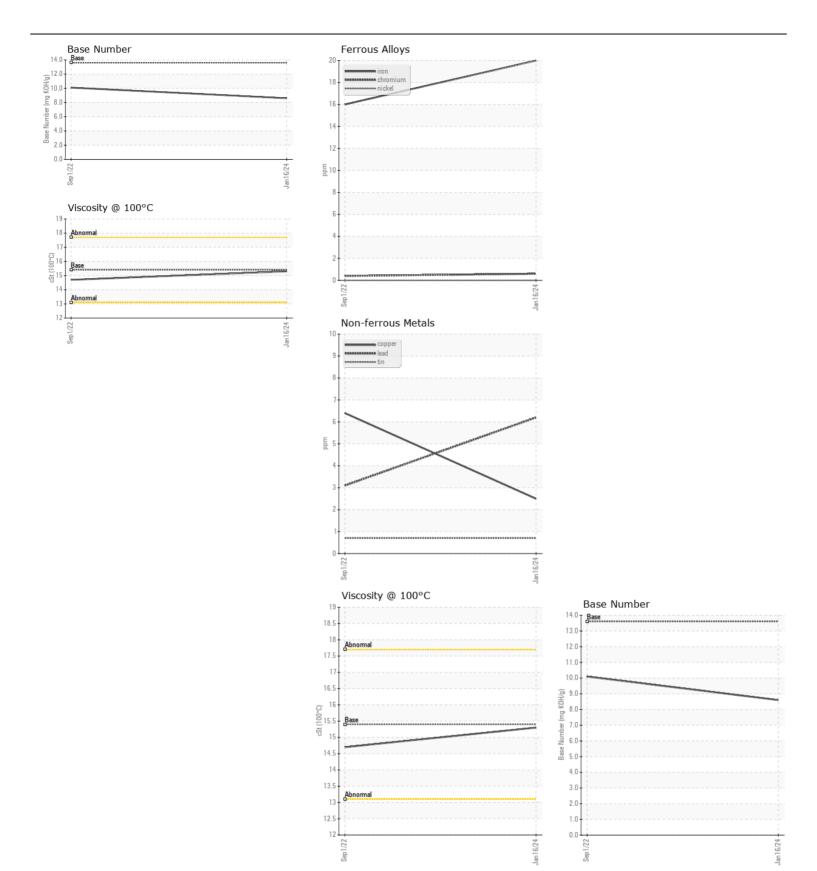
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

HITACHI 350LC-6 1FFDDR70KHF940305

Component Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0197795	JR0139554	
	Sample Date		Client Info		16 Jan 2024	01 Sep 2022	
	Machine Age	hrs	Client Info		7028	5398	
	Oil Age	hrs	Client Info		1630	0	
	Filter Age	hrs	Client Info		1630	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185m	\100	20	16	
	Chromium	ppm	ASTM D5185m		<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		9	9	
	Lead	ppm	ASTM D5185m		6	3	
	Copper	ppm	ASTM D5185m		2	6	
	Tin	ppm	ASTM D5185m		- <1	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	10	8	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	1	0	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	1.9	1.2	
	Nitration	Abs/cm	*ASTM D7624	>20	10.3	10.6	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	26.3	25.7	
	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	>0.2	NEG	NEG	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m		6	<1	
	Boron	ppm	ASTM D5185m		127	162	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		261	247	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		915	767	
	Calcium	ppm	ASTM D5185m		1519	1390	
	Phosphorus	ppm	ASTM D5185m		868	822	
	Zinc	ppm	ASTM D5185m		1158	1045	
	Sulfur	ppm	ASTM D5185m		2808	2687	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	18.4	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.6	10.1	
	Visc @ 100°C	cSt	ASTM D445	4 = 4	15.3	14.7	







Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0197795 : 06062503

: 10833885

Recieved Diagnosed

: 17 Jan 2024 : 18 Jan 2024

Diagnostician : Don Baldridge

Contact: RALEIGH SHOP

sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com T: (919)614-2260

4161 AUBURN CHURCH RD

Test Package : CONST (Additional Tests: TBN) 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) JRE - GARNER

GARNER, NC

F: (919)779-5432

US 27529