WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

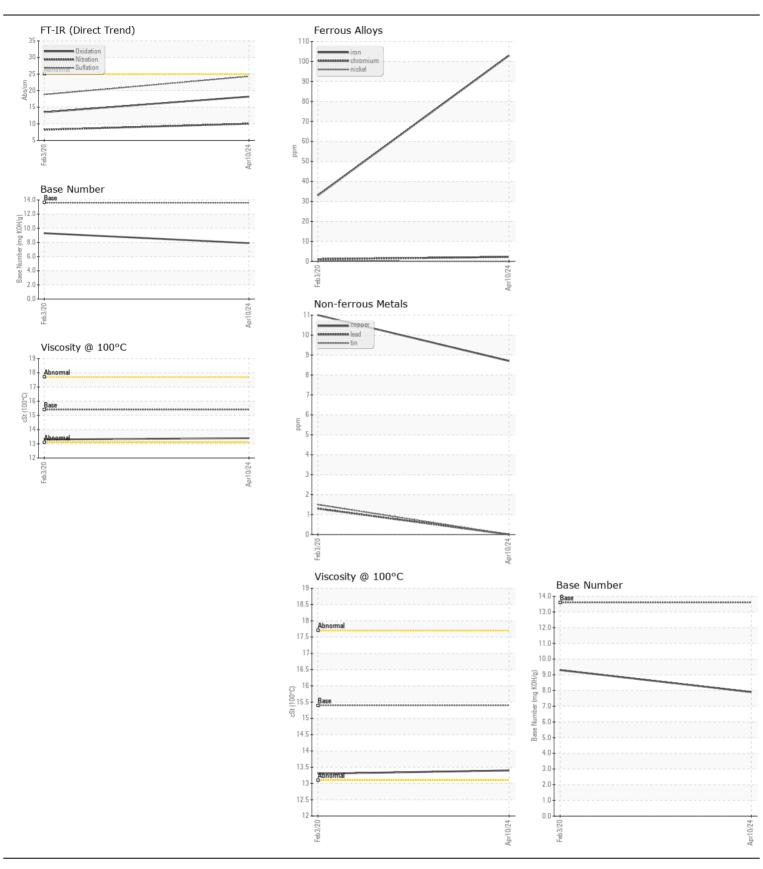
Machine Id

RAYCO C120 1200468 (S/N C120R0130619)

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		JR0207872	JR0037186	
	Sample Date		Client Info		10 Apr 2024	03 Feb 2020	
	Machine Age	hrs	Client Info		583	140	
	Oil Age	hrs	Client Info		0	140	
	Filter Age	hrs	Client Info		0	140	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	103	33	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	2	1	
	Nickel	ppm	ASTM D5185m	>4	0	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	8	11	
	Lead	ppm	ASTM D5185m	>40	0	1	
	Copper	ppm	ASTM D5185m	>330	9	11	
	Tin	ppm	ASTM D5185m	>15	0	2	
	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	>25	18	9	
7511174MH177111511	Potassium	ppm	ASTM D5185m		1	3	
There is no indication of any contamination in the oil.	Fuel	le le	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.8	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	10.0	8.2	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3	18.8	
	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	
LUID CONDITION	Sodium	ppm	ASTM D5185m		3	6	
I ESID SONDITION	Boron	ppm	ASTM D5185m		90	69	
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		220	52	
	Manganese	ppm	ASTM D5185m		0	2	
	Magnesium	ppm	ASTM D5185m		827	735	
	Calcium	ppm	ASTM D5185m		1836	1283	
	Phosphorus	ppm	ASTM D5185m		1007	953	
	Zinc	ppm	ASTM D5185m		1166	992	
	Sulfur	ppm	ASTM D5185m		3662	4058	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	13.5	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.9	9.3	
	Visc @ 100°C	cSt	ASTM D445	15./	13.4	13.3	







Laboratory Sample No.

Lab Number : 06146990

: JR0207872

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

Received **Tested** Unique Number: 10977068 Diagnosed Test Package : CONST (Additional Tests: TBN)

: 15 Apr 2024 : 15 Apr 2024 - Wes Davis

: 12 Apr 2024

US 28806 Contact: Randy Warren randy.warren@jamesriverequipment.com T: (528)667-0176

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: (828)667-4865

JRE - ASHEVILLE

101 BRUCE DRIVE

ASHEVILLE, NC