WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

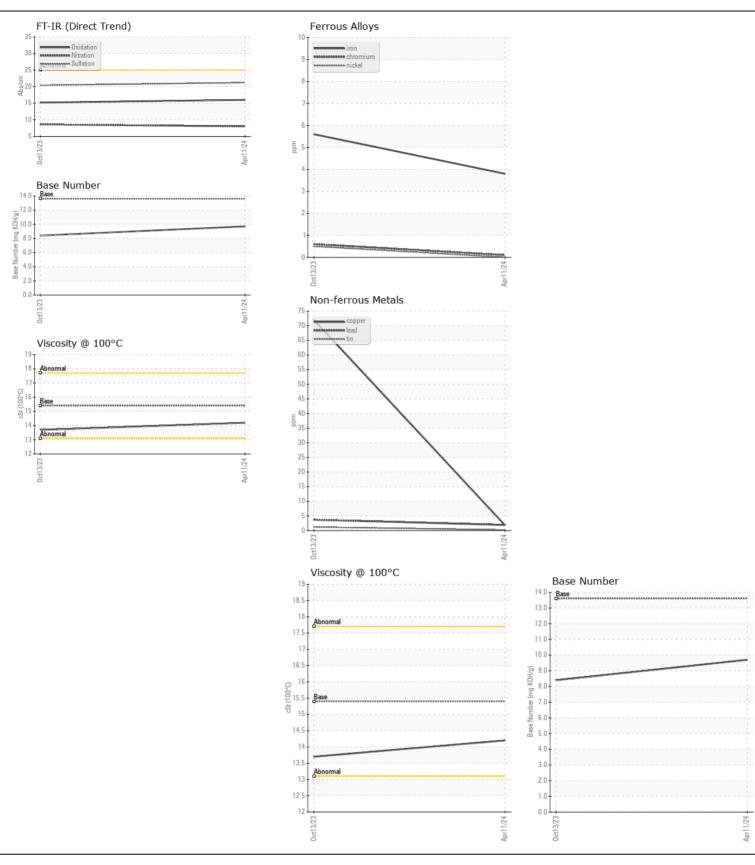
Machine Id

KLEEMANN MC110i EVO2 K117-0102

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		JR0210124	JR0187798	
	Sample Date		Client Info		11 Apr 2024	13 Oct 2023	
	Machine Age	hrs	Client Info		1478	1009	
	Oil Age	hrs	Client Info		478	500	
	Filter Age	hrs	Client Info		478	500	
	Oil Changed		Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	4	6	
W=/WL	Chromium	ppm	ASTM D5185m		<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m	77	0	<1	
	Silver		ASTM D5185m	. 2	0	0	
	Aluminum	ppm	ASTM D5185m		7	4	
	Lead	ppm	ASTM D5185m		2	4	
		ppm			2		
	Copper	ppm	ASTM D5185m			72	
	Tin	ppm	ASTM D5185m	>15	<1	1	
	Vanadium	ppm	ASTM D5185m	NONE	0	<1 NONE	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	8	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	8	7	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0	
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	8.6	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	20.4	
	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	
ELUID CONDITION	G "				·		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	0	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		314	198	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	10	
	Molybdenum	ppm	ASTM D5185m		263	168	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		904	516	
	Calcium	ppm	ASTM D5185m		1549	1817	
	Phosphorus	ppm	ASTM D5185m		1026	895	
	Zinc	ppm	ASTM D5185m		1189	1024	
	Sulfur	ppm	ASTM D5185m		3814	3062	
	Oxidation	Abs/.1mm	*ASTM D7414		16.0	15.2	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.7	8.4	
	Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.7	





Laboratory Sample No.

Lab Number : 06149275 Unique Number : 10979353

: JR0210124

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

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

: 15 Apr 2024 : 16 Apr 2024

: 16 Apr 2024 - Wes Davis

JRE - STEPHENSON 245 YARDMASTER COURT STEPHENSON, VA US 22656-1761

Contact: PHIL DAUGHERTY pdaugherty@jamesriverequipment.com T: x:

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: (540)693-2588