WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

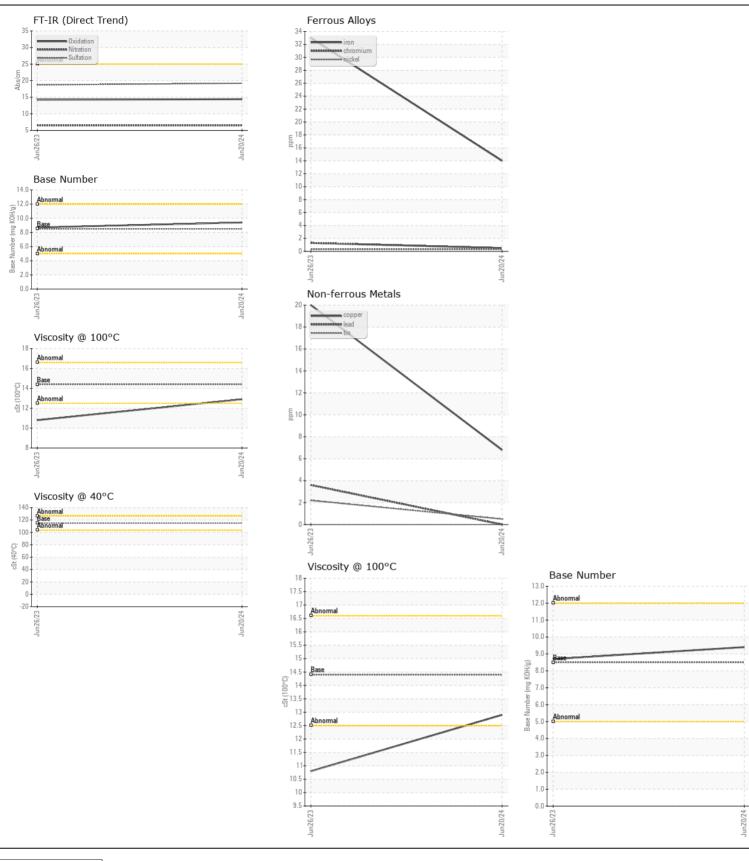
Machine Id

KUBOTA E241

Diesel Engine

DIESEL ENGINE OIL SAE 15W/10 (-CAL

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0219613	JR0171684	
	Sample Date		Client Info		20 Jun 2024	26 Jun 2023	
	Machine Age	hrs	Client Info		246	199	
	Oil Age	hrs	Client Info		200	199	
	Filter Age	hrs	Client Info		200	199	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ATTENTION	
VEAR	Iron	ppm	ASTM D5185m	>100	14	33	
	Chromium	ppm	ASTM D5185m	>20	<1	1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	<1	<1	
	Aluminum	ppm	ASTM D5185m		5	10	
	Lead	ppm	ASTM D5185m		0	4	
	Copper	ppm	ASTM D5185m		7	20	
	Tin	ppm	ASTM D5185m		, <1	2	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon		ASTM D5185m	. 05	44	00	
ONTAMINATION		ppm			11	23 2	
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m		3	1.2	
	Water		WC Method		<1.0 NEG	NEG	
			WC Method WC Method	>0.2	NEG	NEG	
	Glycol Soot %	%	*ASTM D7844	. 0	0.2		
	Nitration		*ASTM D7624	>20	6.5	0.2 6.5	
	Sulfation	Abs/.1mm	*ASTM D7624		19.2	18.7	
	Silt		*Visual		NONE		
	Debris	scalar		NONE		NONE	
	Sand/Dirt	scalar	*Visual *Visual	NONE	NONE NONE	NONE NONE	
		scalar	*Visual	NONE NORML	NORML	NORML	
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
	Lindollica Water		Vioudi				
LUID CONDITION	Sodium	ppm	ASTM D5185m		2	3	
ne BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	222	103	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		2	6	
	Molybdenum	ppm	ASTM D5185m	100	214	58	
	Manganese	ppm	ASTM D5185m		<1	4	
	Magnesium	ppm	ASTM D5185m		646	261	
	Calcium	ppm	ASTM D5185m		1509	2450	
	Phosphorus	ppm	ASTM D5185m		818	1065	
	Zinc	ppm	ASTM D5185m		1006	1288	
	Sulfur	ppm	ASTM D5185m		2639	4594	
	Oxidation	Abs/.1mm	*ASTM D7414		14.4	14.2	
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.4	8.7	
	Visc @ 100°C	cSt	ASTM D445	444	12.9	10.8	







Certificate L2367

Laboratory Sample No.

: JR0219613 Lab Number : 06225815 Unique Number : 11109308

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

Received **Tested** Diagnosed

: 02 Jul 2024 : 03 Jul 2024

: 03 Jul 2024 - Jonathan Hester Test Package : CONST (Additional Tests: KV40, TBN)

MATTHEWS CONSTRUCTION 127 GRAYSON RD

ROCK HILL, SC US 29732

Contact: Tad Clinton tclinton@matthewsconstructionco.com T: (803)207-5607

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)