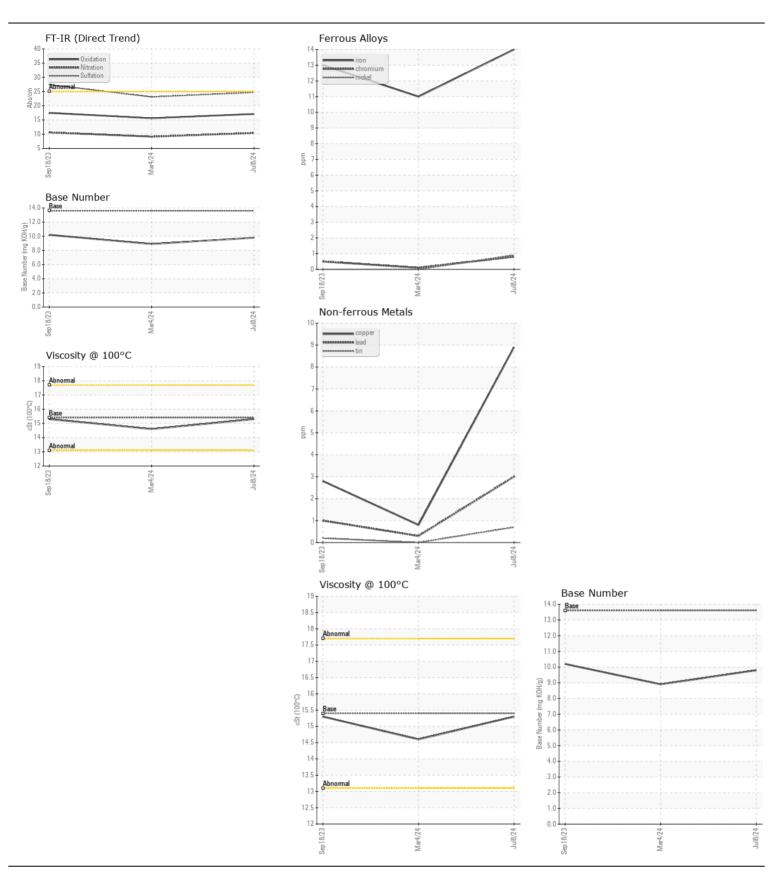
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

[W67861]

HITACHI 250LC 1FFDC270THF444068 (S/N 1FFDC270THF440068)

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Personnels at the part service interval to manitary / Customar Comple	Sample Number		Client Info		JR0205763	JR0206626	JR017806
Resample at the next service interval to monitor. (Customer Sample Comment: W67861)	Sample Date		Client Info		08 Jul 2024	04 Mar 2024	18 Sep 202
	Machine Age	hrs	Client Info		9440	9004	8457
	Oil Age	hrs	Client Info		436	547	8457
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	14	11	13
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	9	10	8
	Lead	ppm	ASTM D5185m	>40	3	<1	1
	Copper	ppm	ASTM D5185m	>330	9	<1	3
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	10	6	9
SSITAMINATION	Potassium	ppm	ASTM D5185m		10	3	5
There is no indication of any contamination in the oil.	Fuel	le le · · ·	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1.5	1.2	1.1
	Nitration	Abs/cm	*ASTM D7624	>20	10.4	9.1	10.6
	Sulfation	Abs/.1mm	*ASTM D7415		24.7	23.1	27.4
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
I LUD CONDITION	Sodium	nnm	ASTM D5185m		69	8	15
FLUID CONDITION	Boron	ppm	ASTM D5185m		157	234	191
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	0
	Molybdenum	ppm	ASTM D5185m		269	273	252
	-	ppm	ASTM D5185m			<1	
	Manganese	ppm	ASTM D5185m		<1 830		<1
	Magnesium Calcium	ppm	ASTM D5185m		1440	869 1522	854 1529
	Phosphorus	ppm	ASTM D5185m		899	909	861
	Zinc	ppm	ASTM D5185m		1103	1077	1093
	Sulfur	ppm	ASTM D5185m			2981	3358
	Oxidation	ppm Abs/.1mm	*ASTM D7414	> 2F	2963 17.1	15.6	17.5
	Base Number (BN)		ASTM D7414 ASTM D2896		9.8	8.9	17.5
	Dase Mullipel (DIV)	nig NOD/g	49 LINI D5030	15.4	5.0	0.5	15.3







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0205763 Lab Number : 06232022

Unique Number : 11115515

Received **Tested** Diagnosed

: 10 Jul 2024 : 11 Jul 2024

: 11 Jul 2024 - Don Baldridge

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC

US 28269 Contact: Chuck Sorrow

Test Package : CONST (Additional Tests: TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. JSorrow@jamesriverequipment.com

* - 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