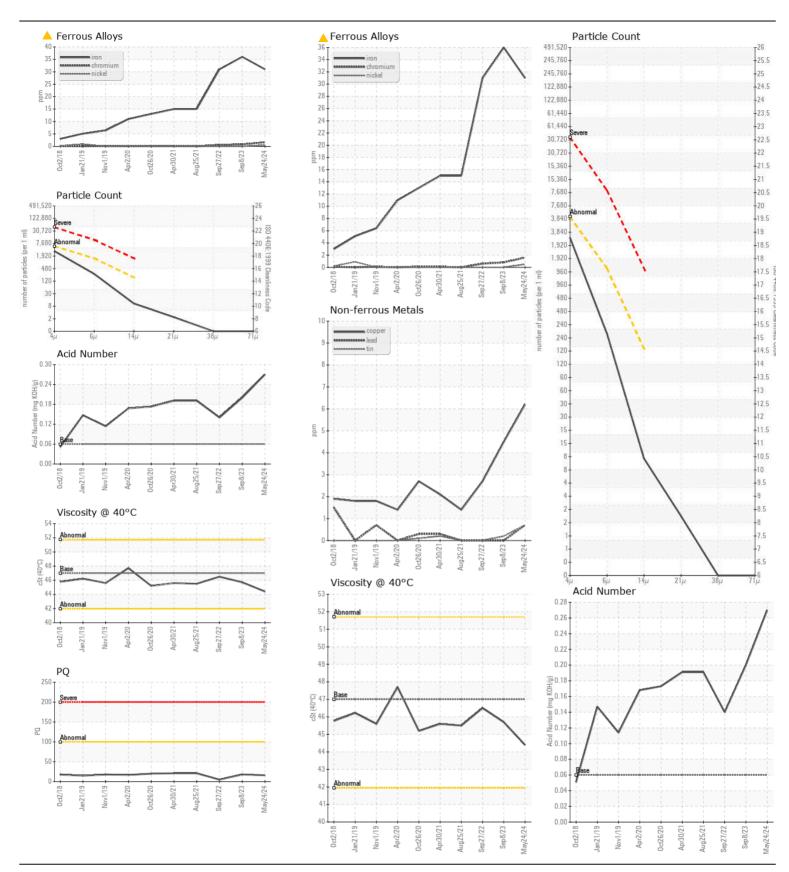
WEAR CONTAMINATION FLUID CONDITION **ABNORMAL NORMAL NORMAL**

[05W46818]

HITACHI 245LC-6 HCMDFD60P00700165

Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0217791	JR0183767	JR0146566
	Sample Date		Client Info		24 May 2024	08 Sep 2023	27 Sep 2022
	Machine Age	hrs	Client Info		4461	4461	3937
	Oil Age	hrs	Client Info		5000	4461	3937
	Filter Age	hrs	Client Info		1000	0	1000
	Oil Changed		Client Info		Changed	N/A	Not Change
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	PQ		ASTM D8184		16	18	5
VEAIT	Iron	ppm	ASTM D5185m	>20	<u> </u>	<u> </u>	△ 31
The iron level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	<1	<1
	Nickel	ppm	ASTM D5185m		- <1	0	0
	Titanium	ppm	ASTM D5185m	7.0	<1	<1	0
	Silver	ppm	ASTM D5185m		1	0	0
	Aluminum	ppm	ASTM D5185m	>10	1	0	<1
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		6	4	3
	Tin	ppm	ASTM D5185m		<1	<1	0
	Vanadium	ppm	ASTM D5185m	710	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliana		ACTM DE10E	00		0	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	6	2	2
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Potassium Water	ppm	ASTM D5185m		<1 NEC	NEG	NEG
			WC Method		NEG 2907		6966
	Particles >4µm Particles >6µm		ASTM D7647 ASTM D7647		236	3277 816	343
	Particles >6µm		ASTM D7647		9	83	18
	Particles >21µm		ASTM D7647		2	19	5
	Particles >38µm		ASTM D7647		0	0	0
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		19/15/10	19/17/14	20/16/1
	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			>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	1	1
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		1	<1	2
	Barium	ppm	ASTM D5185m		0	0	<1
	Molybdenum	ppm	ASTM D5185m		<1	0	<1
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		2	0	2
	Calcium	ppm	ASTM D5185m		105	145	153
	Phosphorus	ppm	ASTM D5185m		473	498	478
	Zinc	ppm	ASTM D5185m		118	102	112
	Sulfur	ppm	ASTM D5185m		504	460	445
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.27	0.20	0.14
	Visc @ 40°C	cSt	ASTM D445	47	44.4	45.7	46.5





Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06194606

: JR0217791 Unique Number: 11056729

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

: 29 May 2024 : 30 May 2024

: 31 May 2024 - Don Baldridge

MANASSAS PARK, VA US 20111 Contact: DON VEST

JRE - MANASSAS PARK

9107 OWENS DRIVE

To discuss this sample report, contact Customer Service at 1-800-237-1369. dvest@jamesriverequipment.com T: (703)631-8500 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

F: (703)631-4715