WEAR CONTAMINATION FLUID CONDITION

NORMAL ATTENTION NORMAL

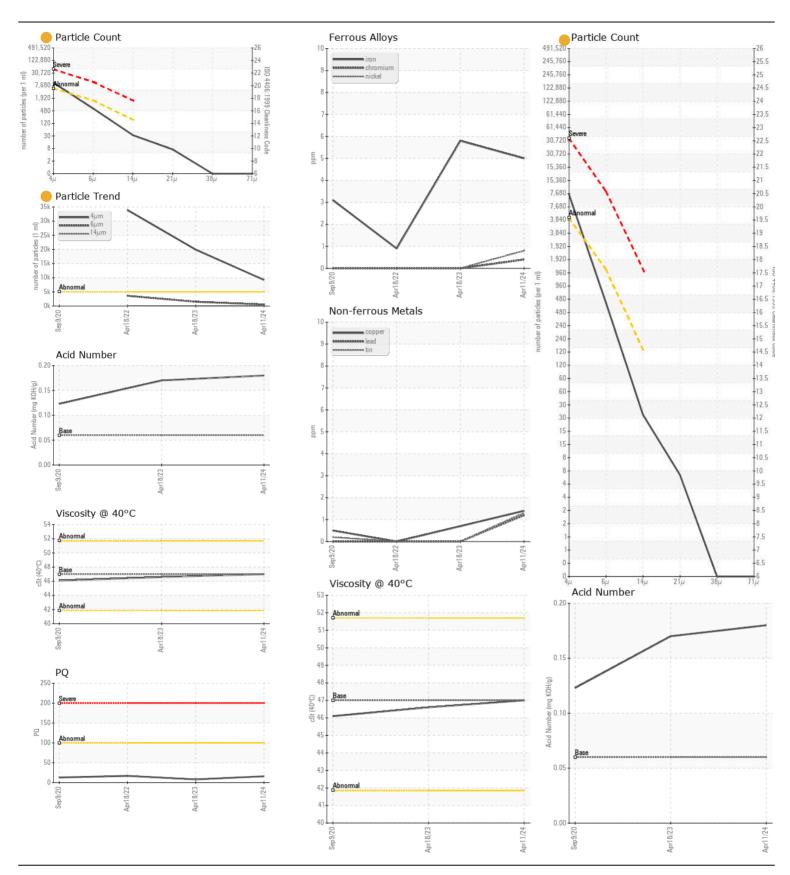
[W66017]

HITACHI 210LC 1FFDC571KJF340541

Hydraulic System

HITACHI HYDRALII IC SUPER EX 46HN (20 GAL)

HITACHI HYDRAULIC SUPER EX 46HN (20 GAI	_)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: W66017)	Sample Number		Client Info		JR0206304	JR0161839	JR0129116
	Sample Date		Client Info		11 Apr 2024	18 Apr 2023	18 Apr 2022
	Machine Age	hrs	Client Info		2671	2212	1517
	Oil Age	hrs	Client Info		2671	0	0
	Filter Age	hrs	Client Info		2671	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
	Filter Changed		Client Info		Not Changd	Changed	Not Changd
	Sample Status				ATTENTION	ABNORMAL	ABNORMAL
WEAR All component wear rates are normal.	PQ		ASTM D8184		16	8	17
	Iron	ppm	ASTM D5185m	>20	5	6	<1
	Chromium	ppm	ASTM D5185m	>10	<1	0	0
	Nickel	ppm	ASTM D5185m	>10	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	1	<1	<1
	Lead	ppm	ASTM D5185m	>10	1	0	0
	Copper	ppm	ASTM D5185m		1	<1	0
	Tin	ppm	ASTM D5185m	>10	1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	<1	0	2
	Potassium	ppm	ASTM D5185m	>20	1	0	<1
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647		9240	<u></u> 19913	△ 33914
	Particles >6µm		ASTM D7647		542	<u> </u>	<u>▲</u> 3587
	Particles >14µm		ASTM D7647		29	27	78
	Particles >21µm		ASTM D7647		6	7	10
	Particles >38µm		ASTM D7647		0	0	0
	Particles >71μm		ASTM D7647		0	0	0
	Oil Cleanliness Silt		ISO 4406 (c) *Visual	>19/17/14 NONE	20/16/12 NONE	△ 21/18/12 NONE	△ 22/19/13 NONE
	Debris	scalar scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m		0	0	0
PLUID CONDITION	Boron	ppm	ASTM D5185m		0	0	3
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		1	0	2
	Manganese	ppm	ASTM D5185m		- <1	<1	0
	Magnesium	ppm	ASTM D5185m		2	2	8
	Calcium	ppm	ASTM D5185m		6	<1	19
	Phosphorus	ppm	ASTM D5185m	827	522	472	721
	Zinc	ppm	ASTM D5185m		15	11	27
	Sulfur	ppm	ASTM D5185m		39	111	85
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.18	0.17	





Certificate L2367

Lab Number

Laboratory Sample No.

: JR0206304

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

: 06147218 Unique Number: 10977296 Test Package : CONST (Additional Tests: PQ)

Received : 12 Apr 2024 **Tested** : 16 Apr 2024 Diagnosed

: 16 Apr 2024 - Don Baldridge

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC US 28269

Contact: CHARLOTTE SHOP myoung@jamesriverequipment.com

T: (704)597-0211 F: (704)596-6198

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)