



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W66265]

Machine Id
HITACHI 210LC 1FFDC571EMF341025

Component
Swing Drive Gear Case

Fluid
Swing Drive Gear Case Oil (2 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W66265)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0205878	JR0188660	JR0141952
Sample Date		Client Info		23 Apr 2024	29 Sep 2023	12 Apr 2023
Machine Age	hrs	Client Info		2014	1533	945
Oil Age	hrs	Client Info		1426	588	500
Filter Age	hrs	Client Info		0	0	500
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Not Changd	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		27	21	16
Iron	ppm	ASTM D5185m	>200	117	102	11
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		0	<1	<1
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m		0	<1	0
Tin	ppm	ASTM D5185m		<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

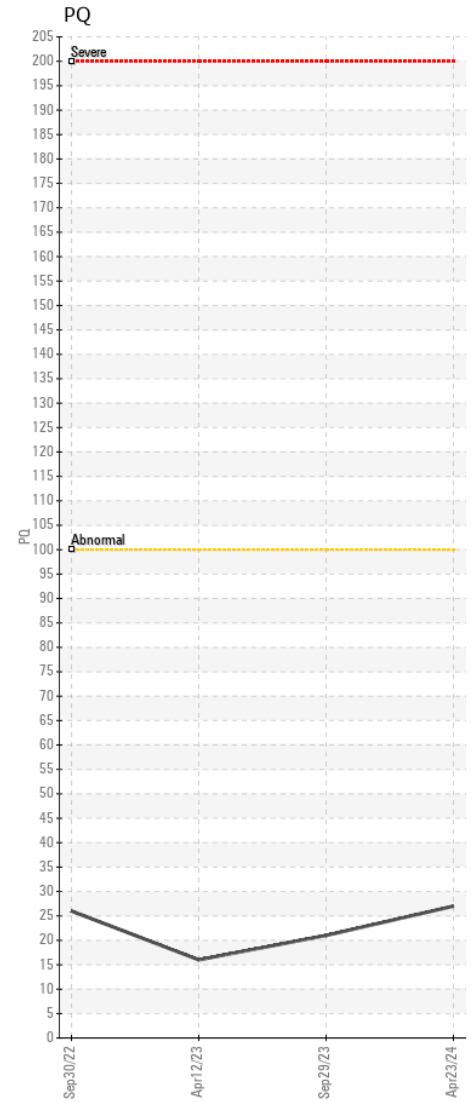
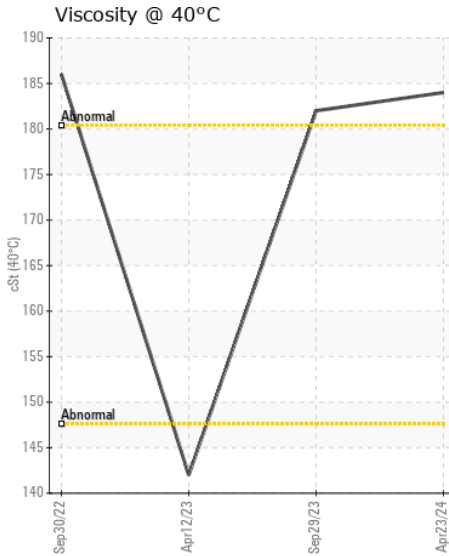
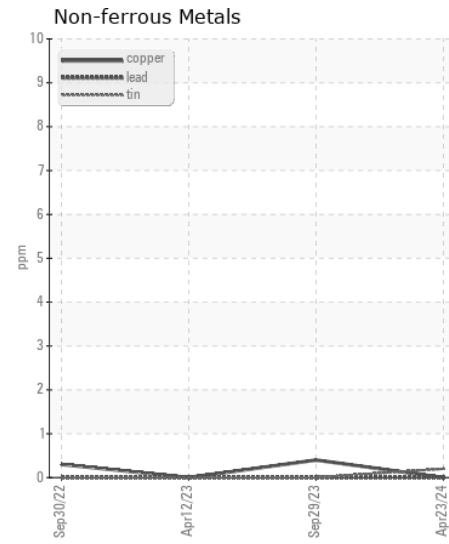
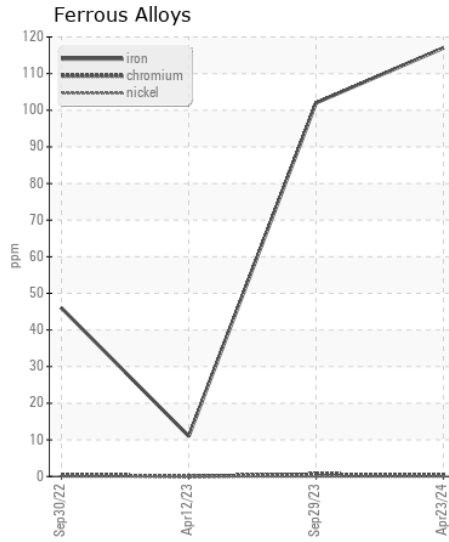
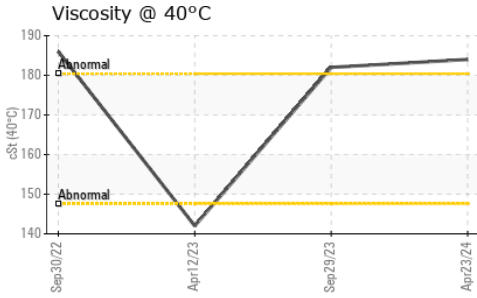
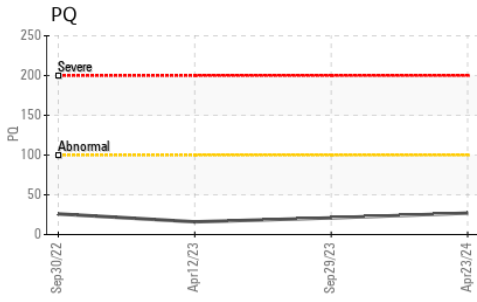
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		19	16	3
Potassium	ppm	ASTM D5185m	>20	2	4	0
Water		WC Method	>0.2	NEG	NEG	NEG
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	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		1	3	<1
Boron	ppm	ASTM D5185m		51	47	47
Barium	ppm	ASTM D5185m		7	0	0
Molybdenum	ppm	ASTM D5185m		3	0	0
Manganese	ppm	ASTM D5185m		3	3	<1
Magnesium	ppm	ASTM D5185m		20	2	0
Calcium	ppm	ASTM D5185m		40	46	44
Phosphorus	ppm	ASTM D5185m		542	493	972
Zinc	ppm	ASTM D5185m		30	10	0
Sulfur	ppm	ASTM D5185m		19583	15690	25056
Visc @ 40°C	cSt	ASTM D445		184	182	142



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0205878
Lab Number : 06160655
Unique Number : 10996078
Test Package : CONST (Additional Tests: PQ)

Received : 25 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 27 Apr 2024 - Don Baldrige

JRE - CHARLOTTE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269

Contact: CHARLOTTE SHOP
 myoung@jamesriverequipment.com

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)

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