



Area
[W68062]
Machine Id
HITACHI 470LC HCMJAG60J00061713
Component
Right Final Drive
Fluid
GEAR OIL SAE 80W90 (2 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. (Customer Sample Comment: W68062)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0219749	JR0203898	JR0192902
Sample Date		Client Info		20 Jun 2024	15 Feb 2024	04 Jan 2024
Machine Age	hrs	Client Info		29877	6892	6892
Oil Age	hrs	Client Info		11292	6892	6892
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Gear wear is indicated.

PQ		ASTM D8184		76	11	125
Iron	ppm	ASTM D5185m	>500	▲ 732	0	876
Chromium	ppm	ASTM D5185m	>10	▲ 8	<1	12
Nickel	ppm	ASTM D5185m	>10	2	0	<1
Titanium	ppm	ASTM D5185m		5	0	1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	● 77	1	15
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>50	2	<1	2
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

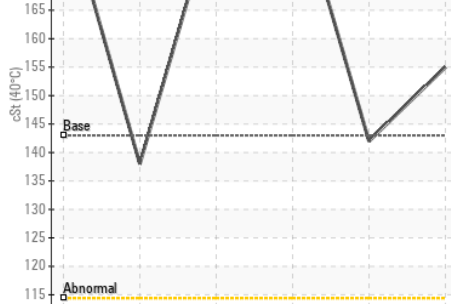
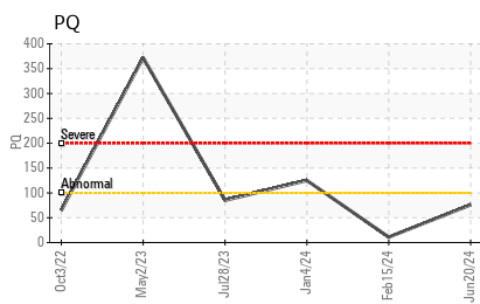
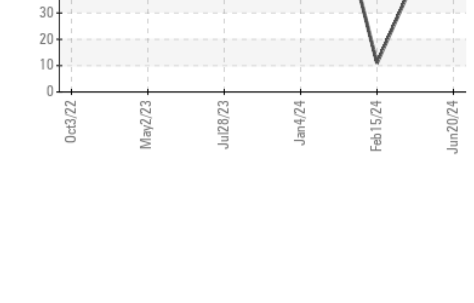
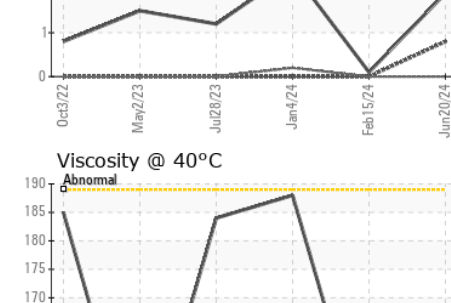
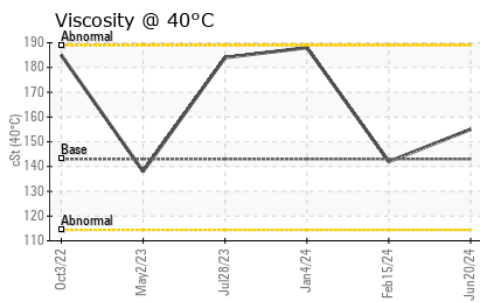
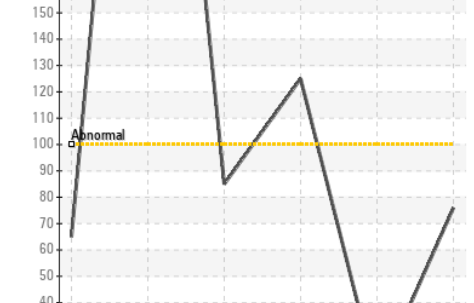
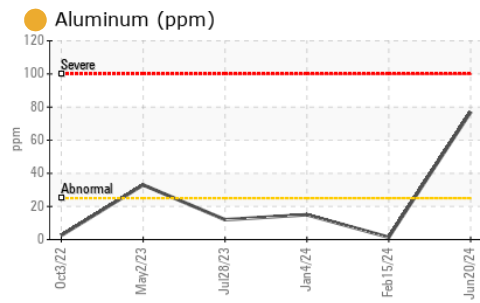
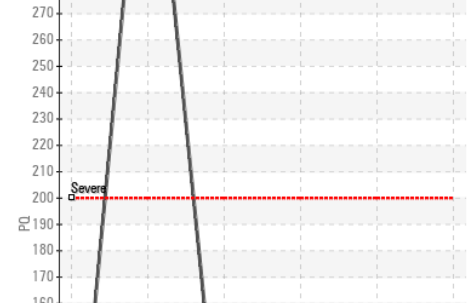
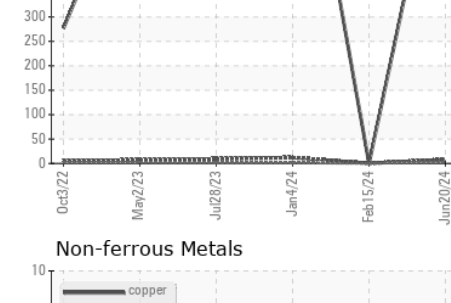
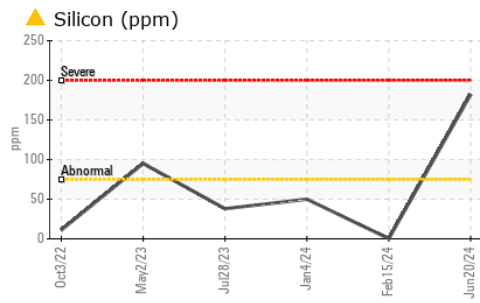
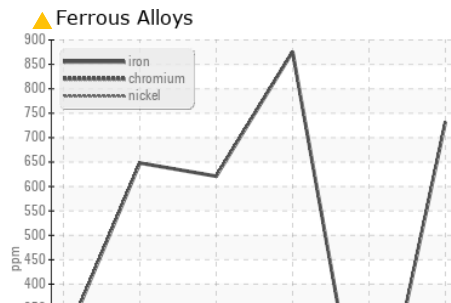
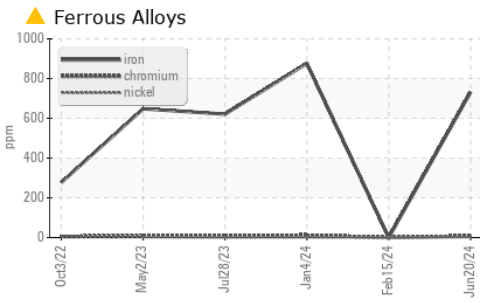
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 182	<1	50
Potassium	ppm	ASTM D5185m	>20	16	<1	17
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	>170	10	0	2
Boron	ppm	ASTM D5185m	400	20	0	34
Barium	ppm	ASTM D5185m	200	5	3	10
Molybdenum	ppm	ASTM D5185m	12	1	<1	0
Manganese	ppm	ASTM D5185m		13	0	20
Magnesium	ppm	ASTM D5185m	12	11	<1	4
Calcium	ppm	ASTM D5185m	150	21	4	26
Phosphorus	ppm	ASTM D5185m	1650	370	316	493
Zinc	ppm	ASTM D5185m	125	25	<1	44
Sulfur	ppm	ASTM D5185m	22500	16766	20654	15437
Visc @ 40°C	cSt	ASTM D445	143	155	142	188



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0219749 **Received** : 24 Jun 2024
Lab Number : 06218487 **Tested** : 25 Jun 2024
Unique Number : 11096684 **Diagnosed** : 25 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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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