



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
HITACHI 470LC HCMJAG60K00061628

Component
Left Final Drive

Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0198253	JR0172191	JR0161564
Sample Date		Client Info		07 Feb 2024	12 Jul 2023	27 Mar 2023
Machine Age	hrs	Client Info		3072	2065	1465
Oil Age	hrs	Client Info		1007	1465	500
Filter Age	hrs	Client Info		0	0	500
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	N/A	Changed
Sample Status				NORMAL	ABNORMAL	MARGINAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		16	150	105
Iron	ppm	ASTM D5185m	>500	0	595	272
Chromium	ppm	ASTM D5185m	>10	0	6	3
Nickel	ppm	ASTM D5185m	>10	<1	2	0
Titanium	ppm	ASTM D5185m		0	1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	▲ 33	18
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	0	1	<1
Tin	ppm	ASTM D5185m	>10	0	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

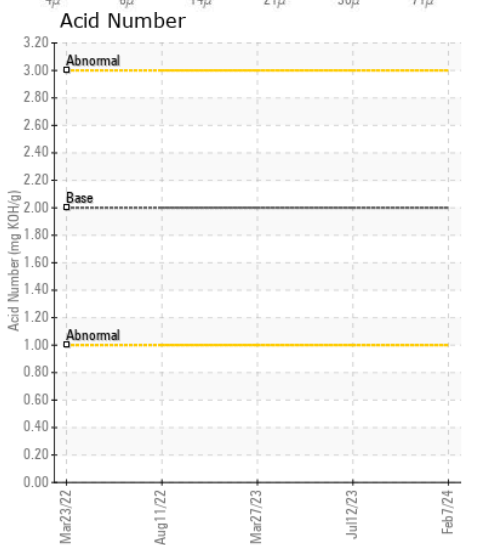
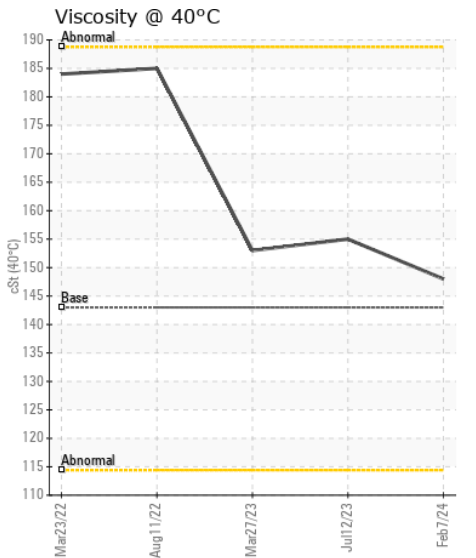
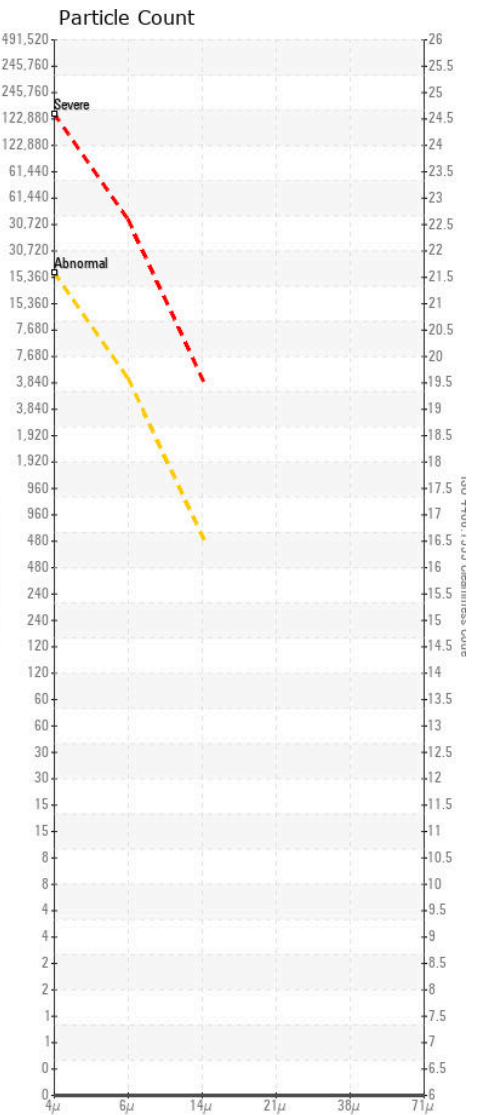
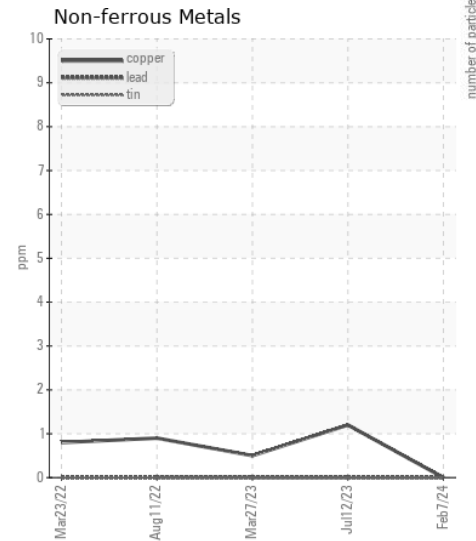
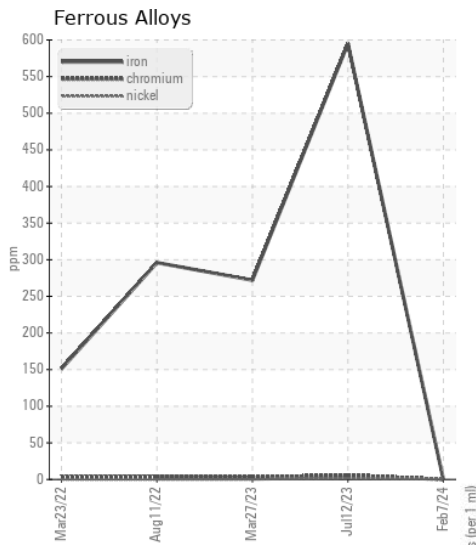
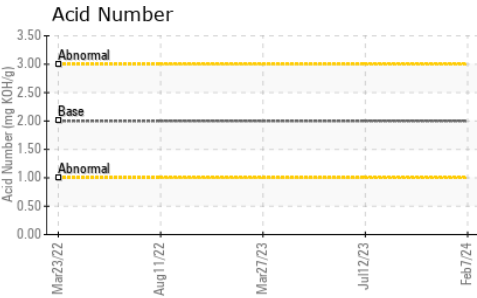
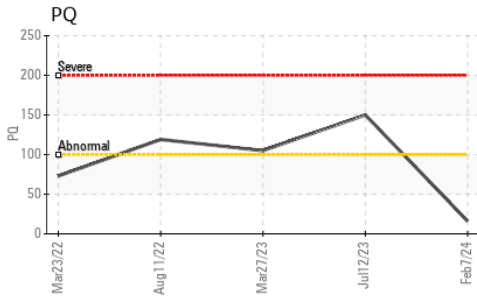
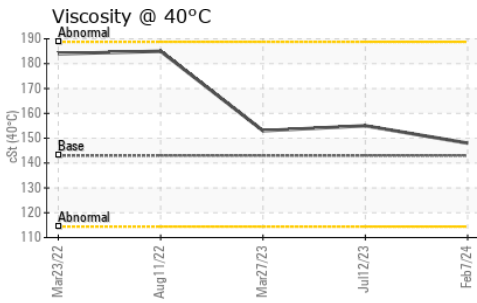
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	2	▲ 61	42
Potassium	ppm	ASTM D5185m	>20	0	12	8
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	▲ MODER
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	<1	3	2
Boron	ppm	ASTM D5185m	400	<1	101	114
Barium	ppm	ASTM D5185m	200	0	5	<1
Molybdenum	ppm	ASTM D5185m	12	0	<1	0
Manganese	ppm	ASTM D5185m		0	9	6
Magnesium	ppm	ASTM D5185m	12	19	3	2
Calcium	ppm	ASTM D5185m	150	573	7	41
Phosphorus	ppm	ASTM D5185m	1650	932	891	880
Zinc	ppm	ASTM D5185m	125	235	25	28
Sulfur	ppm	ASTM D5185m	22500	19376	19836	20561
Visc @ 40°C	cSt	ASTM D445	143	148	155	153



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0198253 **Received** : 14 Feb 2024
Lab Number : 06088695 **Tested** : 15 Feb 2024
Unique Number : 10876140 **Diagnosed** : 15 Feb 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PQ, PrtCount)

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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