



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
HITACHI 250LC 1FFDC270VJF440228
 Component
Swing Drive Gear Case
 Fluid
GEAR OIL SAE 80W90 (2 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0215702	JR0198119	JR0177982
Sample Date		Client Info		20 May 2024	25 Jan 2024	25 Aug 2023
Machine Age	hrs	Client Info		6999	6584	6053
Oil Age	hrs	Client Info		6468	531	580
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Oil Added	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		14	71	53
Iron	ppm	ASTM D5185m	>200	2	82	▲ 205
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
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		<1	1	3
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m		0	0	0
Tin	ppm	ASTM D5185m		<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

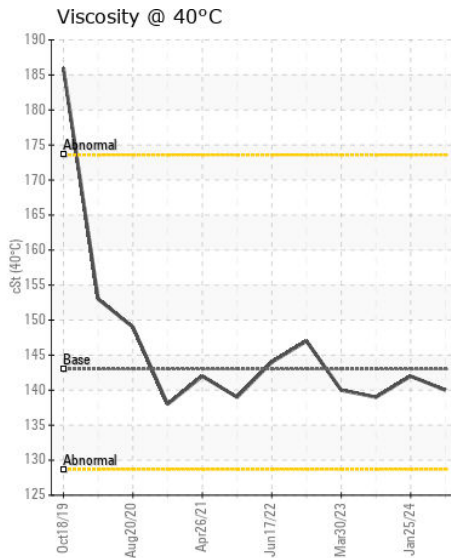
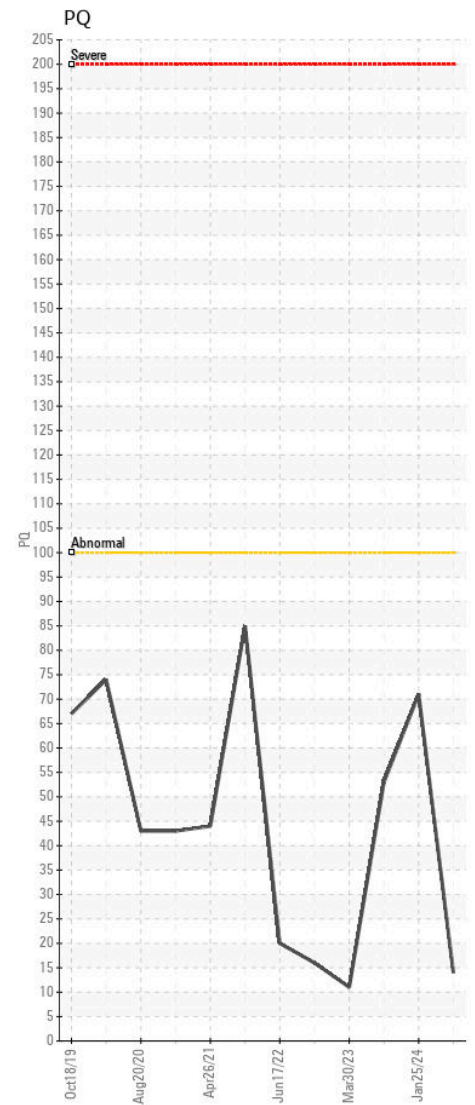
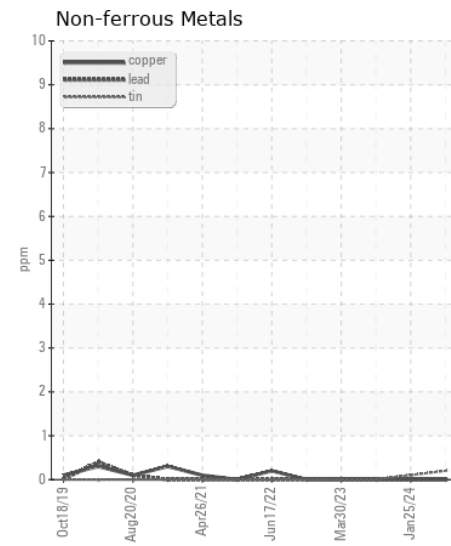
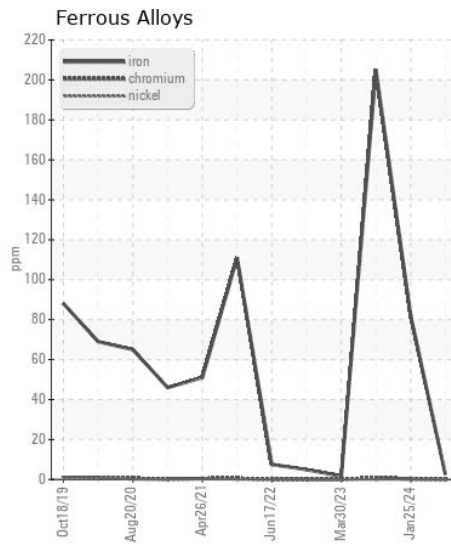
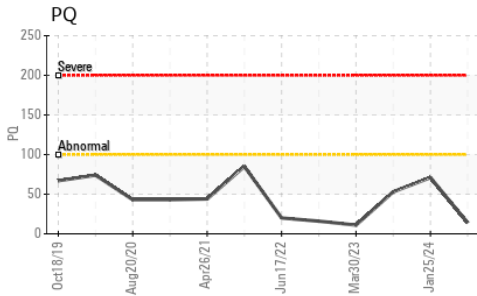
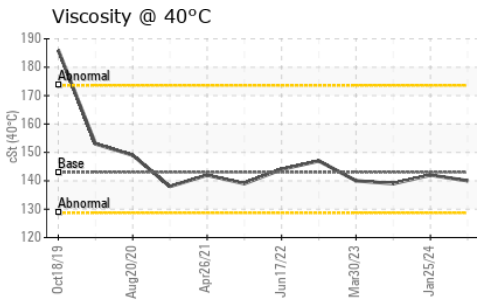
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		3	6	11
Potassium	ppm	ASTM D5185m	>20	<1	2	1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	0	0	<1
Boron	ppm	ASTM D5185m	400	6	1	5
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	5	0	<1
Manganese	ppm	ASTM D5185m		0	<1	1
Magnesium	ppm	ASTM D5185m	12	18	5	4
Calcium	ppm	ASTM D5185m	150	23	34	36
Phosphorus	ppm	ASTM D5185m	1650	300	306	306
Zinc	ppm	ASTM D5185m	125	15	10	13
Sulfur	ppm	ASTM D5185m	22500	21374	18208	20548
Visc @ 40°C	cSt	ASTM D445	143	140	142	139



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0215702 **Received** : 22 May 2024
Lab Number : 06187966 **Tested** : 24 May 2024
Unique Number : 11044718 **Diagnosed** : 24 May 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

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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)