



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
HITACHI TH17 (S/N HCMDAF60A00100067)
 Component
Hydraulic System
 Fluid
DURALENE Trans-Flo UTF (--- QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

The iron level is severe.

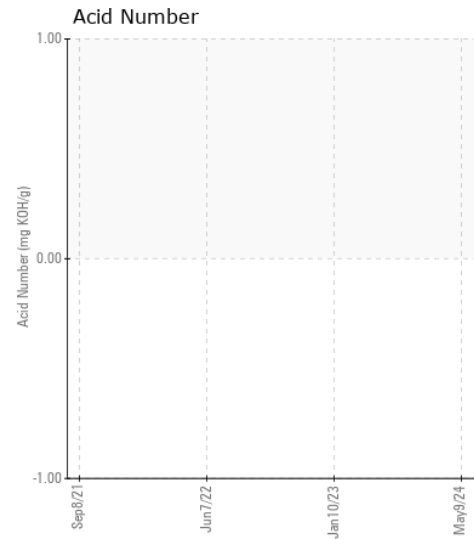
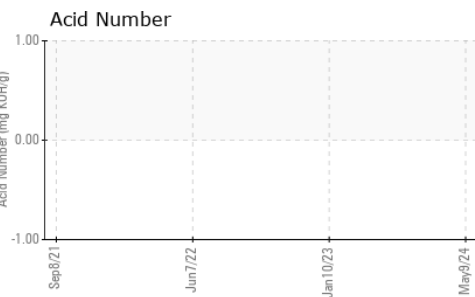
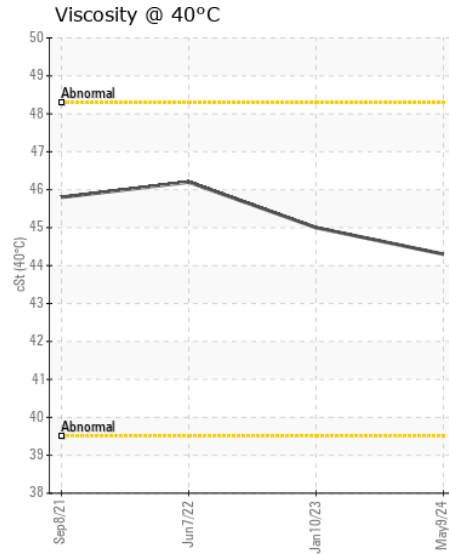
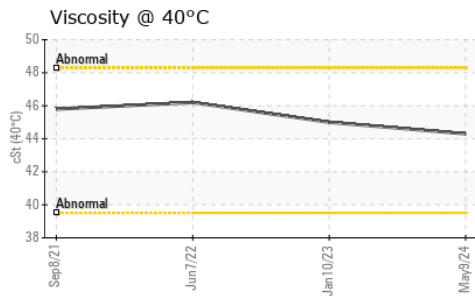
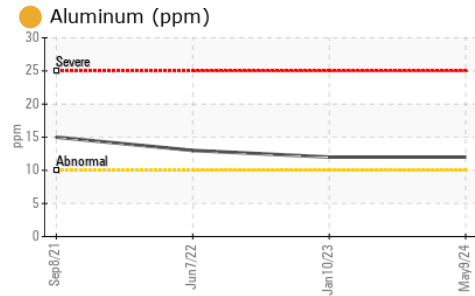
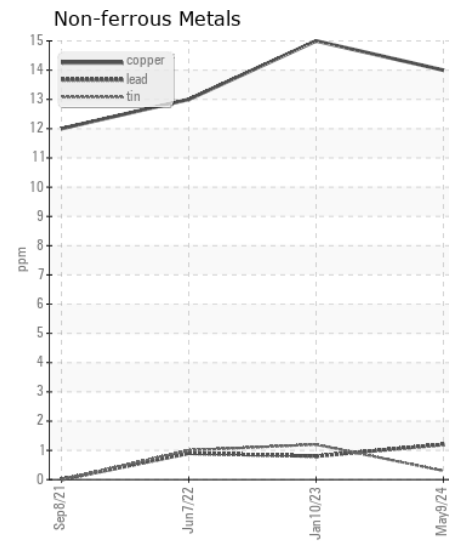
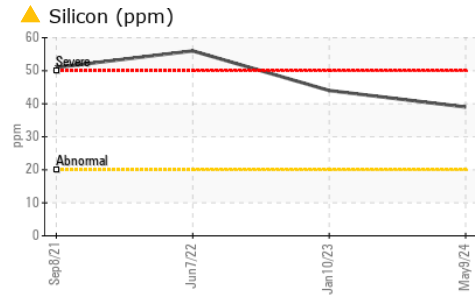
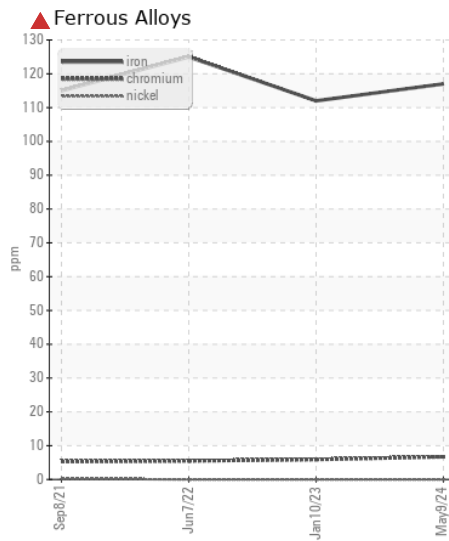
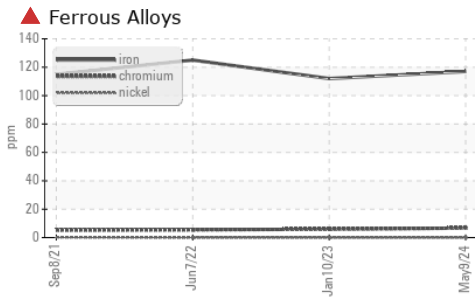
CONTAMINATION

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

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0024019	DC0018861	DC0014241
Sample Date		Client Info		09 May 2024	10 Jan 2023	07 Jun 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
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Iron	ppm	ASTM D5185m	>20	▲ 117	▲ 112	▲ 125
Chromium	ppm	ASTM D5185m	>10	7	6	6
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	● 12	● 12	● 13
Lead	ppm	ASTM D5185m	>10	1	<1	<1
Copper	ppm	ASTM D5185m	>75	14	15	13
Tin	ppm	ASTM D5185m	>10	<1	1	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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Silicon	ppm	ASTM D5185m	>20	▲ 39	▲ 44	▲ 56
Potassium	ppm	ASTM D5185m	>20	3	2	4
Water		WC Method	>0.1	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	>0.1	NEG	NEG	NEG
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Sodium	ppm	ASTM D5185m		6	5	2
Boron	ppm	ASTM D5185m		46	50	64
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		1	1	1
Manganese	ppm	ASTM D5185m		<1	1	1
Magnesium	ppm	ASTM D5185m		0	20	18
Calcium	ppm	ASTM D5185m		1913	1961	1795
Phosphorus	ppm	ASTM D5185m		738	727	780
Zinc	ppm	ASTM D5185m		753	740	796
Sulfur	ppm	ASTM D5185m		3975	3873	3607
Visc @ 40°C	cSt	ASTM D445		44.3	45.0	46.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0024019
Lab Number : 06176351
Unique Number : 11022404
Test Package : MOB 2
Received : 10 May 2024
Tested : 14 May 2024
Diagnosed : 14 May 2024 - Sean Felton

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Certificate L2367
 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)