



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id  
**TAKEUCHI TB230RA 130008871**  
 Component  
**Hydraulic System**  
 Fluid  
**VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0000778</b>	---	---
Sample Date		Client Info		<b>14 Feb 2024</b>	---	---
Machine Age	hrs	Client Info		<b>265</b>	---	---
Oil Age	hrs	Client Info		<b>250</b>	---	---
Filter Age	hrs	Client Info		<b>250</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>ATTENTION</b>	---	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>1</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	---	---
Lead	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>75	<b>3</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

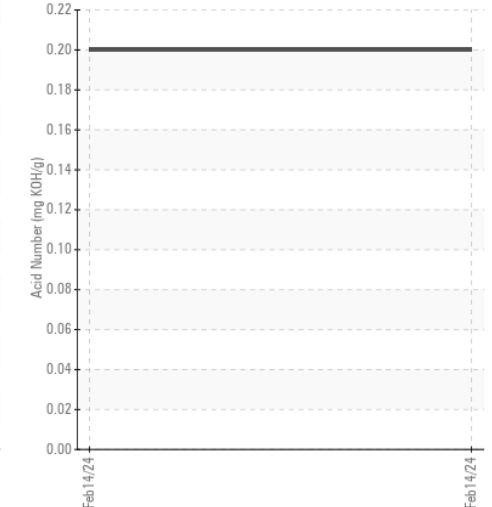
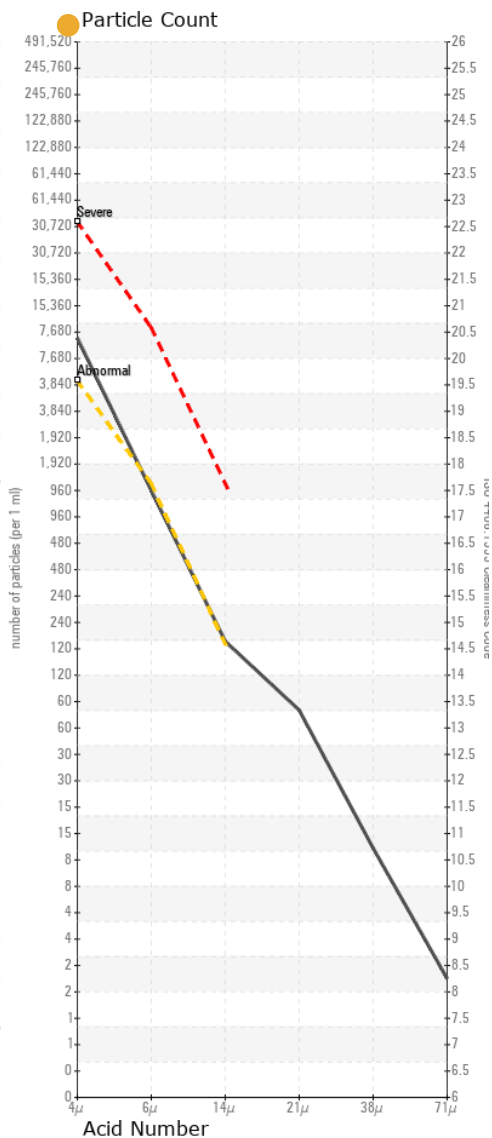
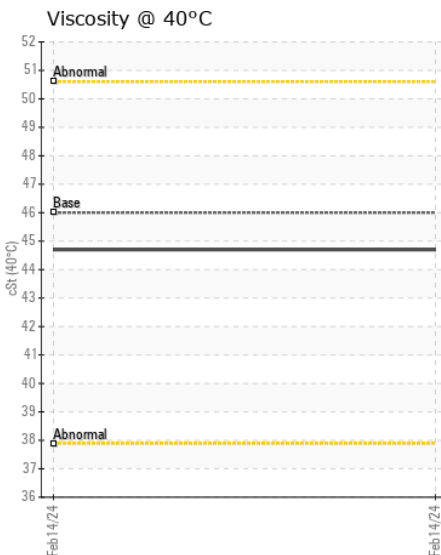
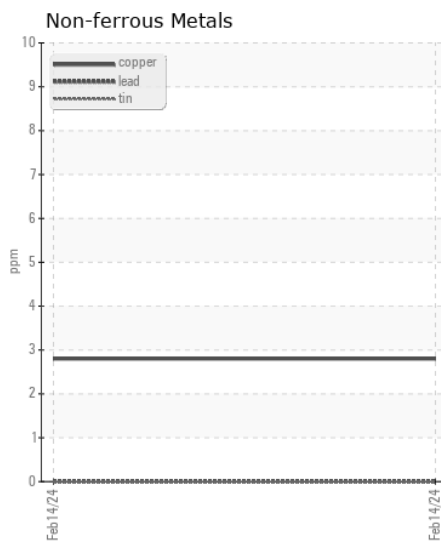
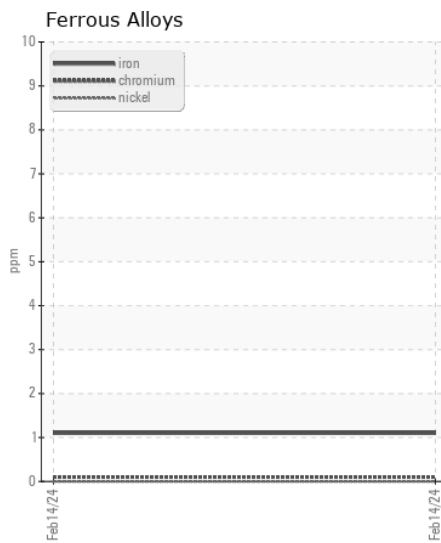
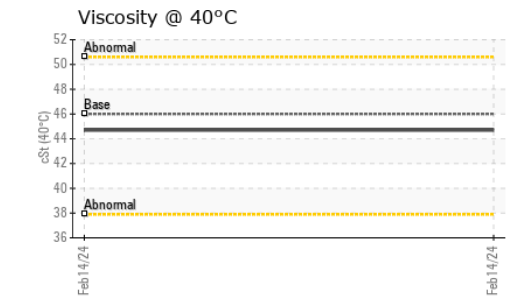
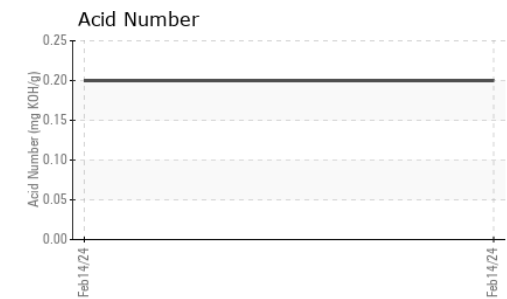
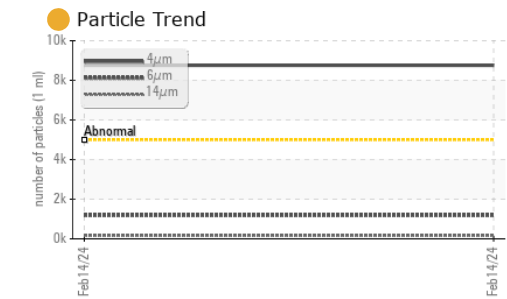
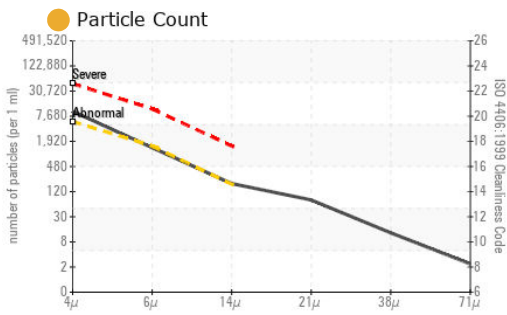
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>2</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Water		WC Method	>0.1	<b>NEG</b>	---	---
Particles >4µm		ASTM D7647	>5000	<b>8755</b>	---	---
Particles >6µm		ASTM D7647	>1300	<b>1189</b>	---	---
Particles >14µm		ASTM D7647	>160	<b>165</b>	---	---
Particles >21µm		ASTM D7647	>40	<b>67</b>	---	---
Particles >38µm		ASTM D7647	>10	<b>11</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>2</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>20/17/15</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	---	---

**FLUID CONDITION**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	---	---
Boron	ppm	ASTM D5185m	14	<b>0</b>	---	---
Barium	ppm	ASTM D5185m	0.0	<b>8</b>	---	---
Molybdenum	ppm	ASTM D5185m	0.0	<b>0</b>	---	---
Manganese	ppm	ASTM D5185m	0.0	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185m	2.6	<b>&lt;1</b>	---	---
Calcium	ppm	ASTM D5185m	49	<b>2</b>	---	---
Phosphorus	ppm	ASTM D5185m	354	<b>277</b>	---	---
Zinc	ppm	ASTM D5185m	419	<b>56</b>	---	---
Sulfur	ppm	ASTM D5185m	3719	<b>307</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.20</b>	---	---
Visc @ 40°C	cSt	ASTM D445	46	<b>44.7</b>	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : ML0000778

Lab Number : 06100877

Unique Number : 10899107

Test Package : CONST

Received : 26 Feb 2024

Tested : 27 Feb 2024

Diagnosed : 28 Feb 2024 - Don Baldrige

MCCLUNG-LOGAN EQUIPMENT CO - CHESAPEAKE

4112 HOLLAND BLVD

CHESAPEAKE, VA

US 23323

Contact: TOMMY GRIFFIN

tgriffin@mcclung-logan.com

T: (757)485-3314

F: (757)485-3415

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)