

OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
TAKEUCHI TB230RA 130008871

Component
Hydraulic System

Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	ML0000778	---	---
Sample Date	Client Info	14 Feb 2024	---	---
Machine Age	hrs	265	---	---
Oil Age	hrs	250	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ATTENTION	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >20	1	---	---
Chromium	ppm ASTM D5185m >10	<1	---	---
Nickel	ppm ASTM D5185m >10	0	---	---
Titanium	ppm ASTM D5185m	0	---	---
Silver	ppm ASTM D5185m	0	---	---
Aluminum	ppm ASTM D5185m >10	2	---	---
Lead	ppm ASTM D5185m >10	0	---	---
Copper	ppm ASTM D5185m >75	3	---	---
Tin	ppm ASTM D5185m >10	0	---	---
Vanadium	ppm ASTM D5185m	0	---	---
Cadmium	ppm ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 14	0	---	---
Barium	ppm ASTM D5185m 0.0	8	---	---
Molybdenum	ppm ASTM D5185m 0.0	0	---	---
Manganese	ppm ASTM D5185m 0.0	0	---	---
Magnesium	ppm ASTM D5185m 2.6	<1	---	---
Calcium	ppm ASTM D5185m 49	2	---	---
Phosphorus	ppm ASTM D5185m 354	277	---	---
Zinc	ppm ASTM D5185m 419	56	---	---
Sulfur	ppm ASTM D5185m 3719	307	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	2	---	---
Sodium	ppm ASTM D5185m	0	---	---
Potassium	ppm ASTM D5185m >20	<1	---	---

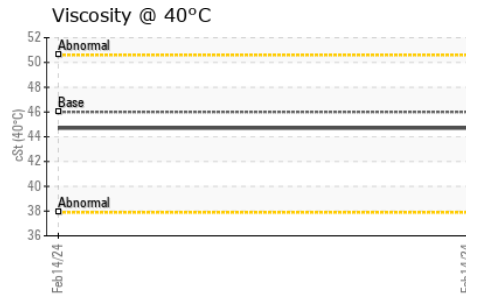
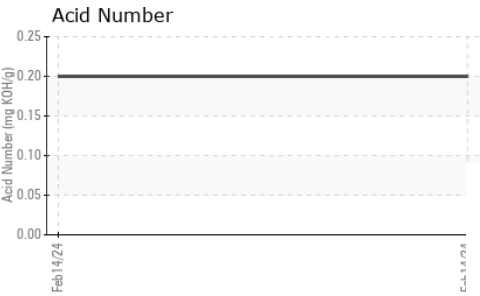
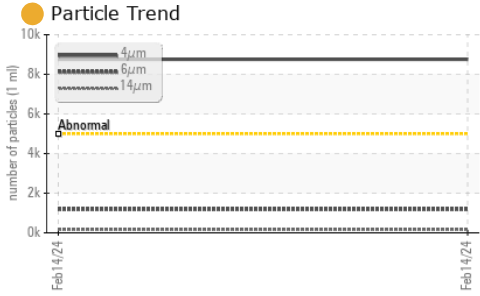
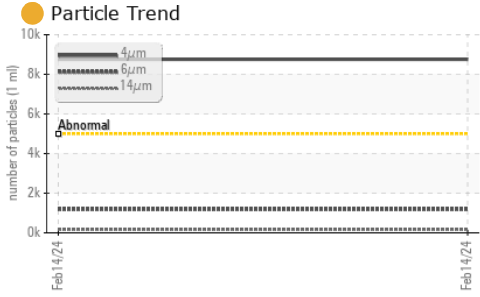
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	8755	---	---
Particles >6µm	ASTM D7647 >1300	1189	---	---
Particles >14µm	ASTM D7647 >160	165	---	---
Particles >21µm	ASTM D7647 >40	67	---	---
Particles >38µm	ASTM D7647 >10	11	---	---
Particles >71µm	ASTM D7647 >3	2	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	20/17/15	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	0.20	---	---

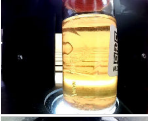

OIL ANALYSIS REPORT



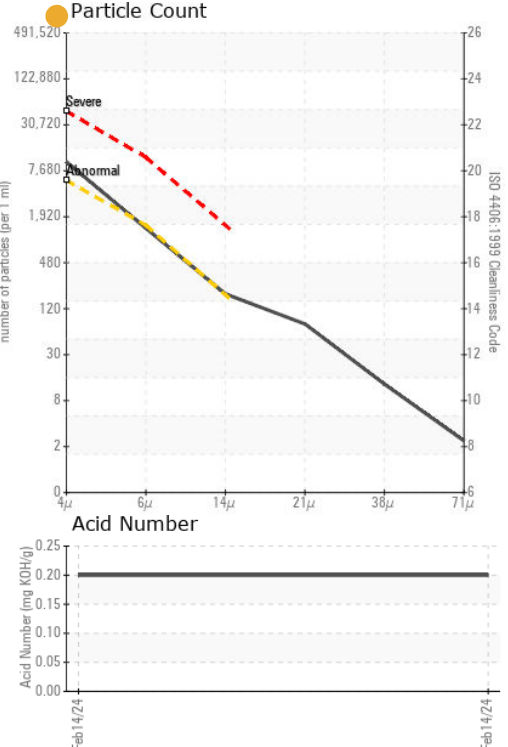
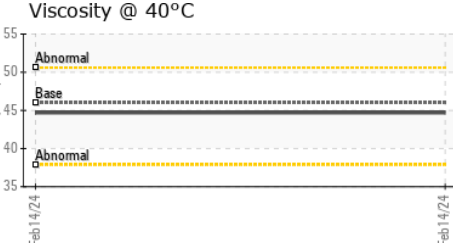
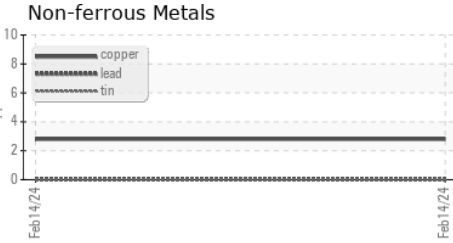
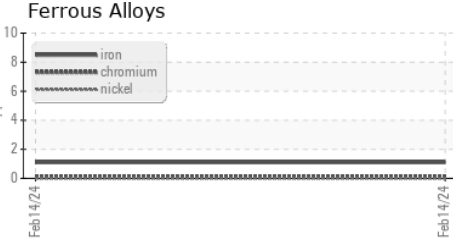
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.7	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color		no image	no image
Bottom		no image	no image

GRAPHS



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
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 US 23323
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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)