



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area

**[W/O 11008]**

Machine Id

**VOLVO EC350E 314521**

Component

**Hydraulic System**

Fluid

**CHEVRON HYDRAULIC OIL AW ISO 46 (60 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0002076</b>	VCP413796	VCP407334
Sample Date		Client Info		<b>20 Jun 2024</b>	19 Oct 2023	18 May 2023
Machine Age	hrs	Client Info		<b>4201</b>	2322	1133
Oil Age	hrs	Client Info		<b>1879</b>	0	0
Filter Age	hrs	Client Info		<b>1879</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	<b>2</b>	3	1
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>0</b>	2	0
Lead	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>150	<b>12</b>	19	13
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

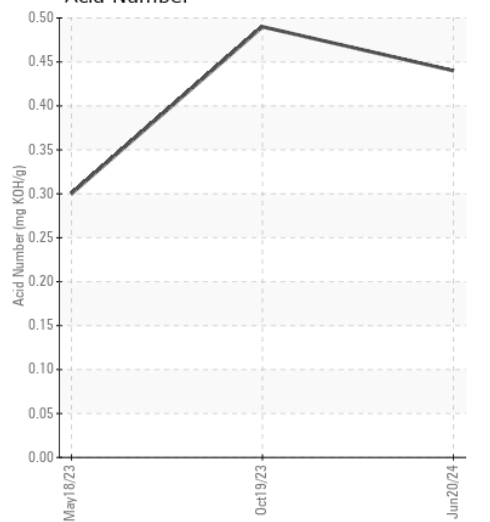
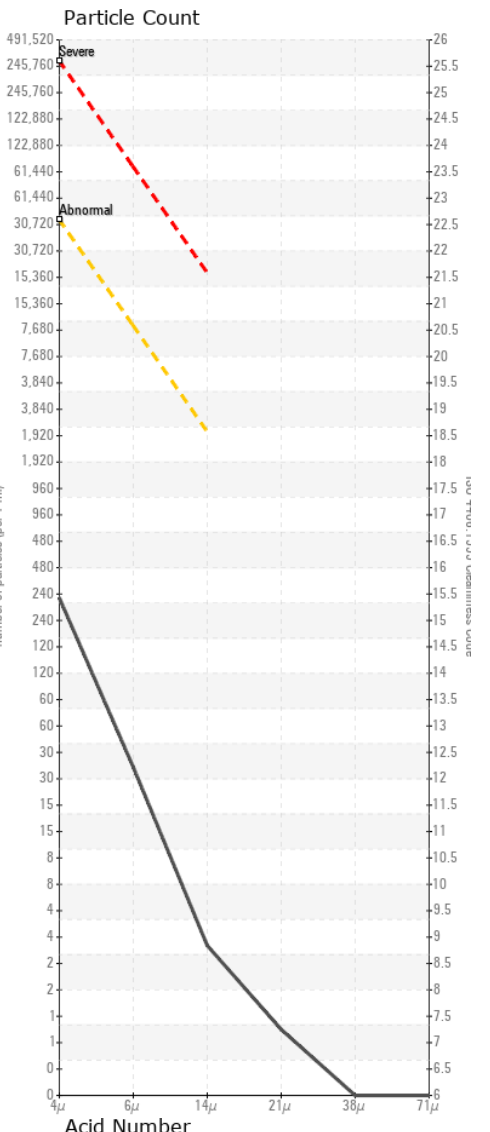
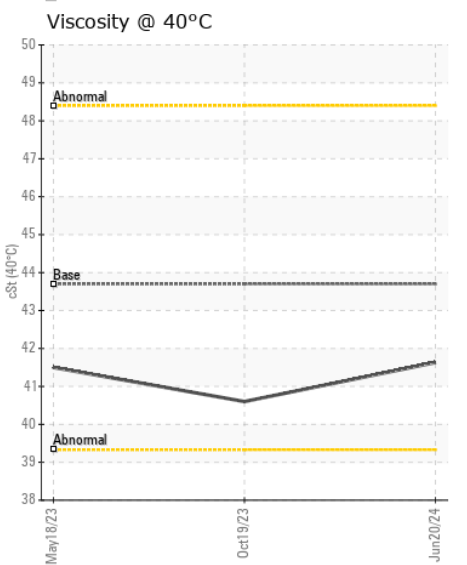
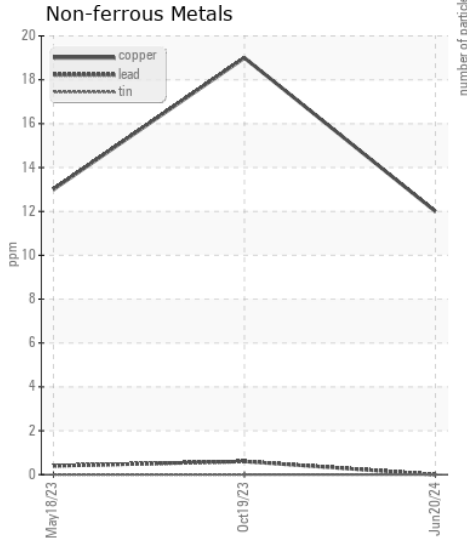
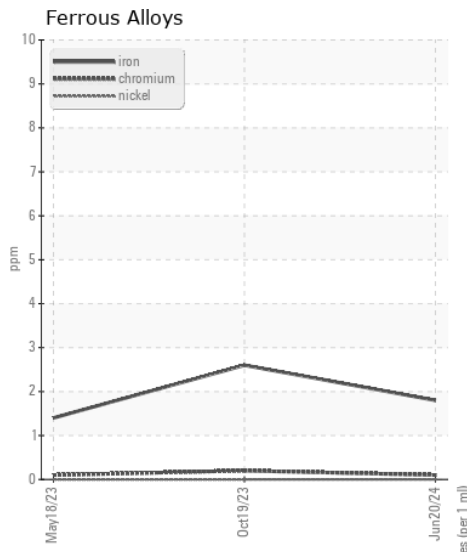
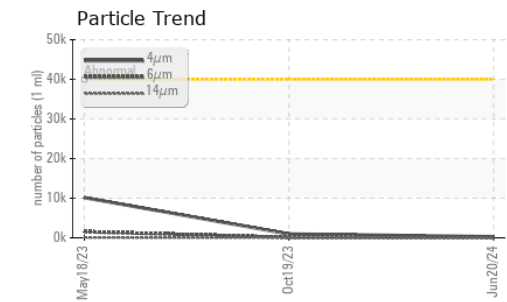
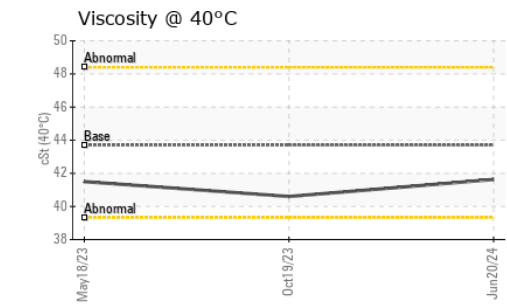
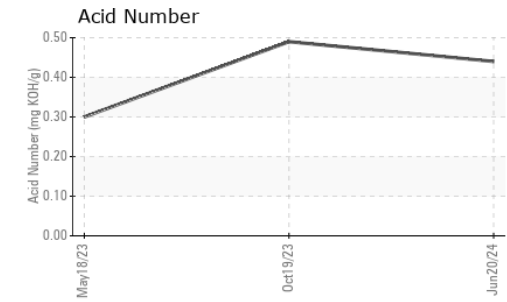
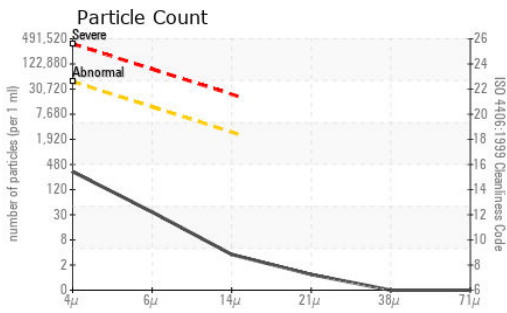
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>50	<b>3</b>	4	3
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>40000	<b>284</b>	966	10148
Particles >6µm		ASTM D7647	>10000	<b>31</b>	74	1545
Particles >14µm		ASTM D7647	>2500	<b>3</b>	9	45
Particles >21µm		ASTM D7647	>640	<b>1</b>	4	15
Particles >38µm		ASTM D7647	>160	<b>0</b>	0	2
Particles >71µm		ASTM D7647	>40	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>22/20/18	<b>15/12/9</b>	17/13/10	21/18/13
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

**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>2</b>	0	0
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	3	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>0</b>	0	<1
Calcium	ppm	ASTM D5185m		<b>63</b>	88	89
Phosphorus	ppm	ASTM D5185m		<b>350</b>	409	386
Zinc	ppm	ASTM D5185m		<b>430</b>	528	523
Sulfur	ppm	ASTM D5185m		<b>1033</b>	1081	1127
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.44</b>	0.49	0.30
Visc @ 40°C	cSt	ASTM D445	43.7	<b>41.63</b>	40.6	41.5



Certificate L2367

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

Sample No. : ML0002076

Lab Number : 06222824

Unique Number : 11101021

Test Package : CONST

Received : 27 Jun 2024

Tested : 02 Jul 2024

Diagnosed : 02 Jul 2024 - Jonathan Hester

RECYCLE 1

4700 LAWRENCE ST

HYATTSVILLE, MD

US 20781

Contact: MIKE DESJARDINS

mdesjarkins@wbwaste.com

T:

F:

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)