



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Ascendum Machinery
 Machine Id
VOLVO EC380E 310244
 Component
Hydraulic System
 Fluid
VOLVO SUPER HYDRAULIC OIL 46 (59 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0008246	ASC0000759	VCP0005309
Sample Date		Client Info		16 Jul 2024	20 Sep 2023	16 Dec 2022
Machine Age	hrs	Client Info		15015	14040	13005
Oil Age	hrs	Client Info		975	12665	786
Filter Age	hrs	Client Info		0	2000	0
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	4	8	3
Chromium	ppm	ASTM D5185m	>10	<1	2	1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	4	<1	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>150	2	3	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

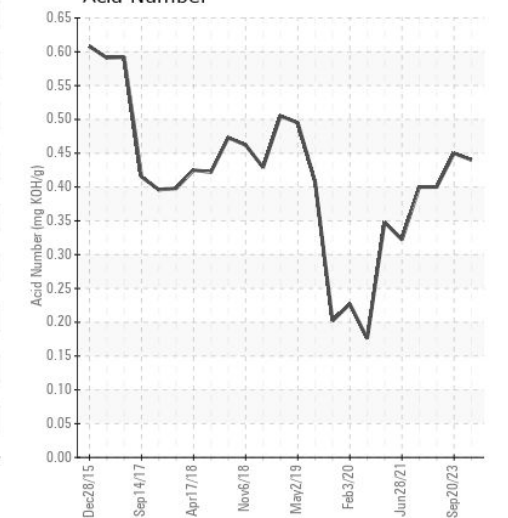
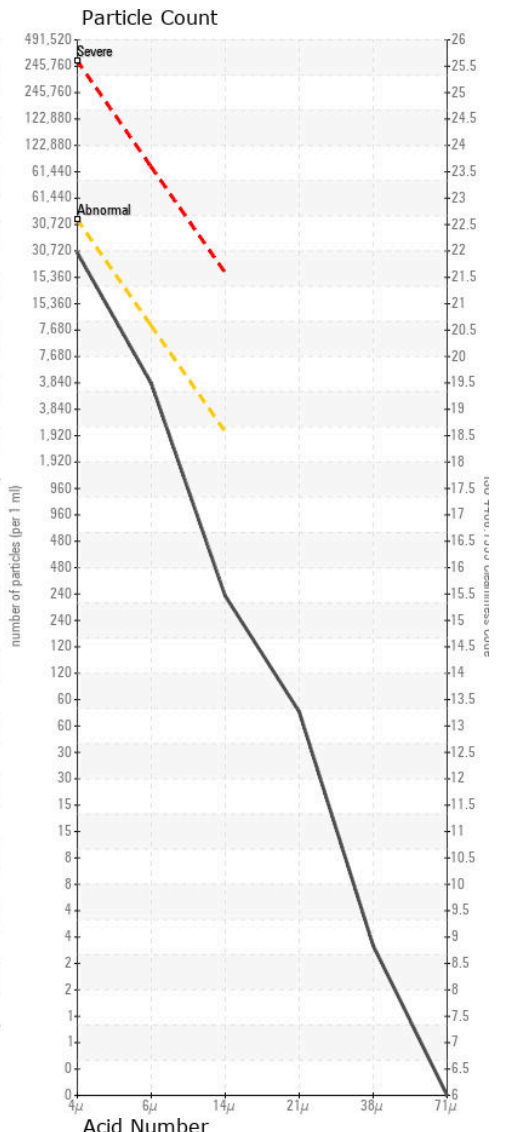
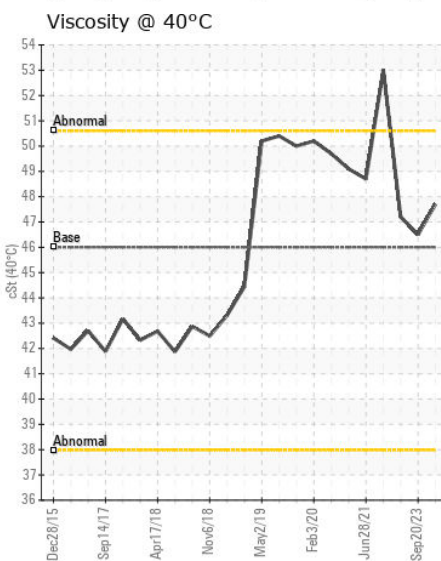
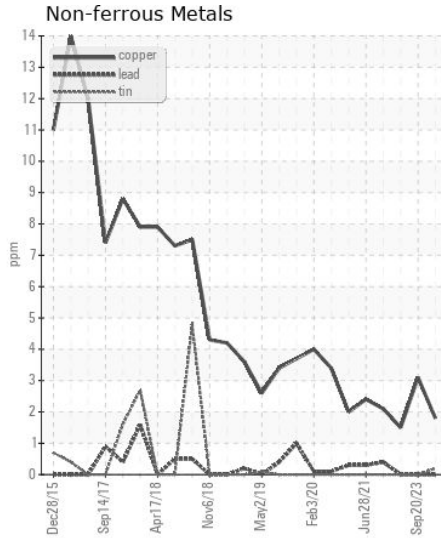
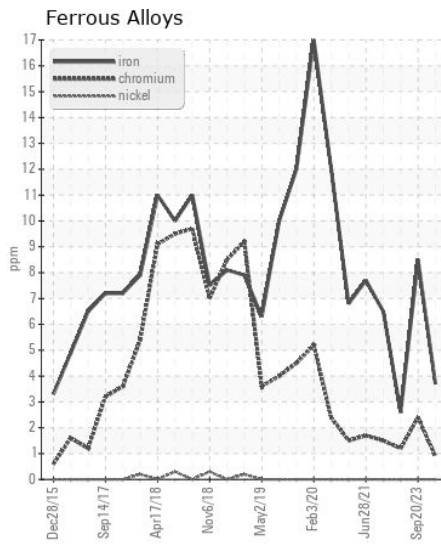
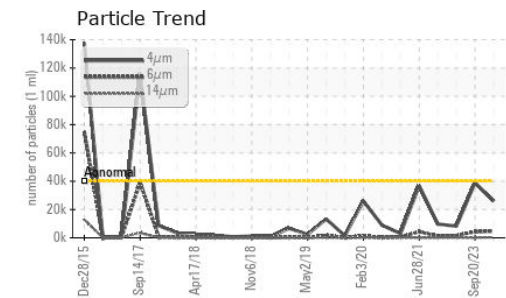
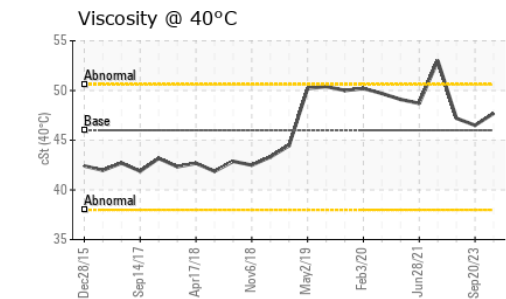
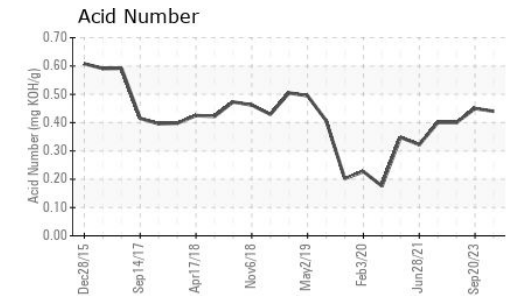
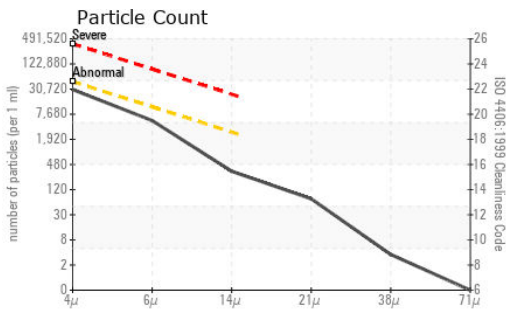
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>50	4	9	4
Potassium	ppm	ASTM D5185m	>20	12	12	16
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>40000	25986	38924	8219
Particles >6µm		ASTM D7647	>10000	4709	4277	1627
Particles >14µm		ASTM D7647	>2500	291	38	79
Particles >21µm		ASTM D7647	>640	64	5	14
Particles >38µm		ASTM D7647	>160	3	0	0
Particles >71µm		ASTM D7647	>40	0	0	0
Oil Cleanliness		ISO 4406 (c)	>22/20/18	22/19/15	22/19/12	20/18/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	6	6
Boron	ppm	ASTM D5185m	14	22	24	26
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	13	13	17
Manganese	ppm	ASTM D5185m	0.0	0	<1	0
Magnesium	ppm	ASTM D5185m	2.6	36	38	43
Calcium	ppm	ASTM D5185m	49	336	339	455
Phosphorus	ppm	ASTM D5185m	354	348	363	374
Zinc	ppm	ASTM D5185m	419	433	395	422
Sulfur	ppm	ASTM D5185m	3719	2060	2152	2726
Acid Number (AN)	mg KOH/g	ASTM D8045		0.44	0.45	0.40
Visc @ 40°C	cSt	ASTM D445	46	47.7	46.5	47.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0008246 **Received** : 18 Jul 2024
Lab Number : 06240249 **Tested** : 19 Jul 2024
Unique Number : 11129083 **Diagnosed** : 19 Jul 2024 - Wes Davis
Test Package : CONST

METAL RECYCLING SERVICES - MONROE
 P.O. BOX 812
 MONROE, NC
 US 28111
 Contact: RYAN BOWDEN

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)

T:
F: (704)238-0755