



ASCENDUM

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area

Ascendum Machinery

Machine Id

VOLVO EC330B 80411

Component

Right Travel

Fluid

GEAR OIL SAE 90W140 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. 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

Gear wear is indicated.

CONTAMINATION

There is a moderate concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

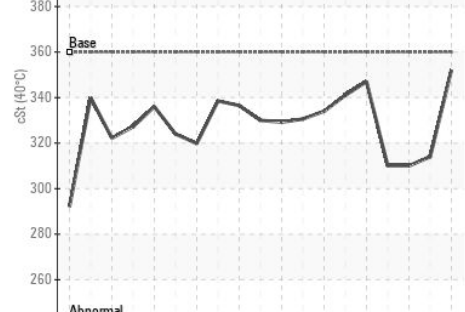
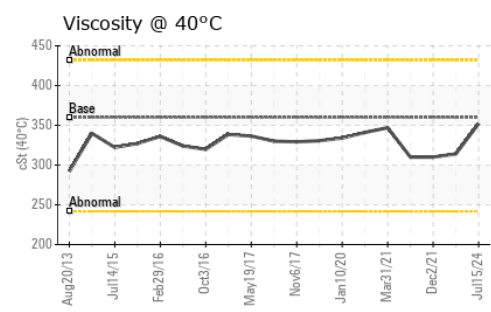
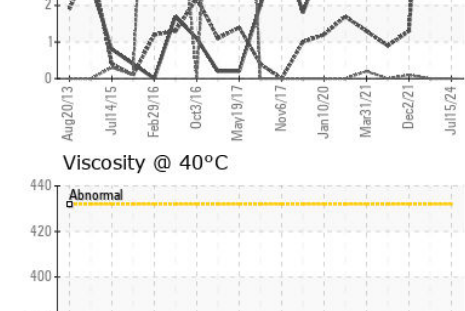
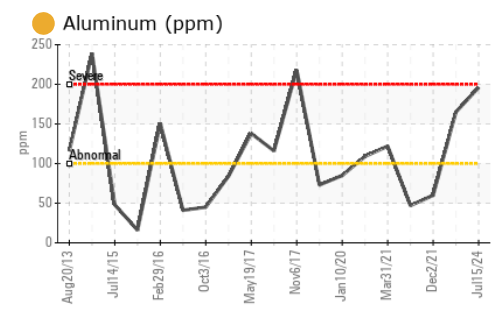
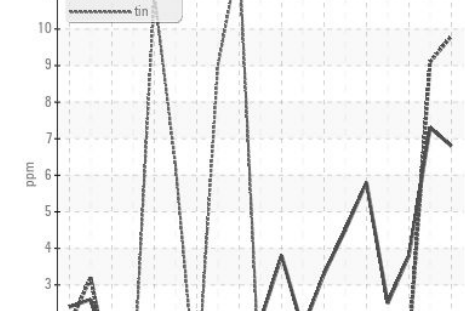
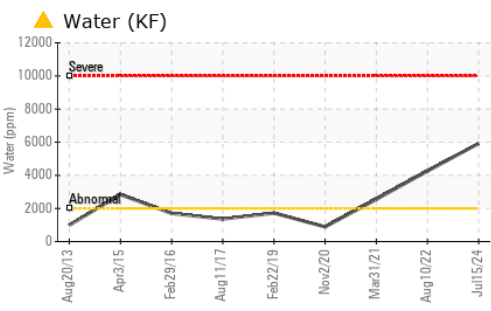
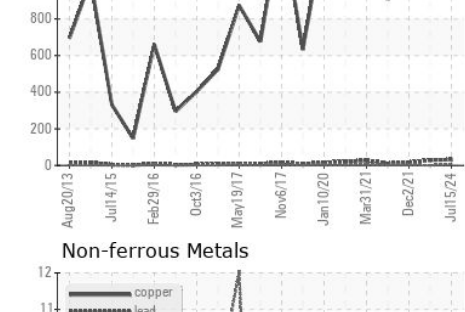
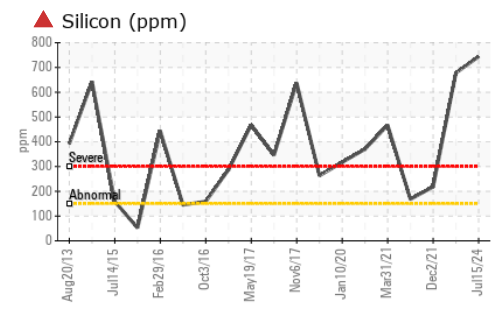
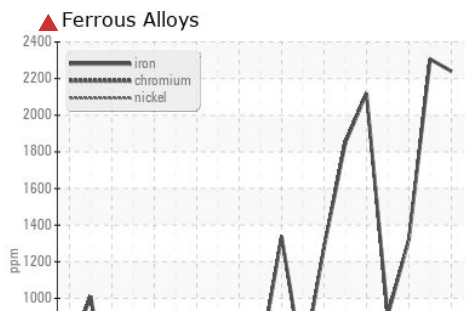
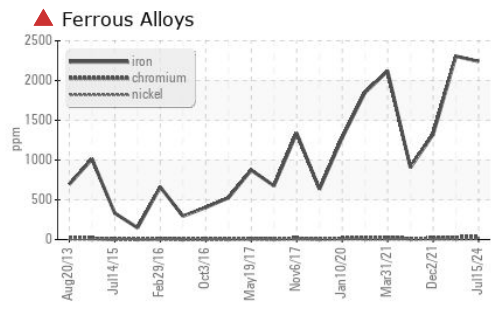
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0008221	VCP0003078	VCP343763
Sample Date		Client Info		15 Jul 2024	10 Aug 2022	02 Dec 2021
Machine Age	hrs	Client Info		22250	10670	9931
Oil Age	hrs	Client Info		10244	1657	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				SEVERE	SEVERE	ABNORMAL

Iron	ppm	ASTM D5185m	>500	▲ 2240	▲ 2306	▲ 1323
Chromium	ppm	ASTM D5185m	>20	▲ 32	▲ 29	▲ 17
Nickel	ppm	ASTM D5185m	>5	5	<1	2
Titanium	ppm	ASTM D5185m		16	16	5
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>100	● 196	● 165	● 60
Lead	ppm	ASTM D5185m	>10	10	9	1
Copper	ppm	ASTM D5185m	>60	7	7	4
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	▲ MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>150	▲ 744	▲ 678	▲ 218
Potassium	ppm	ASTM D5185m	>20	32	32	13
Water	%	ASTM D6304	>0.2	▲ 0.592	▲ 0.426	---
ppm Water	ppm	ASTM D6304	>2000	▲ 5920	▲ 4260	---
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	>0.2	▲ 0.2%	▲ 0.2%	NEG

Sodium	ppm	ASTM D5185m		27	26	12
Boron	ppm	ASTM D5185m	400	110	181	185
Barium	ppm	ASTM D5185m	200	2	0	0
Molybdenum	ppm	ASTM D5185m	12	2	5	3
Manganese	ppm	ASTM D5185m		25	28	13
Magnesium	ppm	ASTM D5185m	12	35	44	24
Calcium	ppm	ASTM D5185m	150	219	224	134
Phosphorus	ppm	ASTM D5185m	1650	897	904	1083
Zinc	ppm	ASTM D5185m	125	12	54	33
Sulfur	ppm	ASTM D5185m	22500	31155	23336	24010
Visc @ 40°C	cSt	ASTM D445	360	352	314	310



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0008221
Lab Number : 06240775
Unique Number : 11129609
Test Package : CONST (Additional Tests: KF)
Received : 18 Jul 2024
Tested : 19 Jul 2024
Diagnosed : 22 Jul 2024 - Don Baldrige

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

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)