



ASCENDUM

OIL ANALYSIS REPORT



Area
Blythe Construction CSA - Charlotte
Machine Id
VOLVO EC250E 3004996 (S/N 250E310486)
Component
Left Travel
Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0000888	ASC0000958	ASC0000320
Sample Date		Client Info		19 Mar 2024	08 Dec 2023	05 Jun 2023
Machine Age	hrs	Client Info		6626	6432	5993
Oil Age	hrs	Client Info		6187	439	127
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		None	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>1200	▲ 1604	▲ 1313	620
Chromium	ppm	ASTM D5185m	>20	11	9	5
Nickel	ppm	ASTM D5185m	>5	1	<1	<1
Titanium	ppm	ASTM D5185m		23	18	11
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>100	● 207	● 155	● 94
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	<1	<1
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	MODER	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

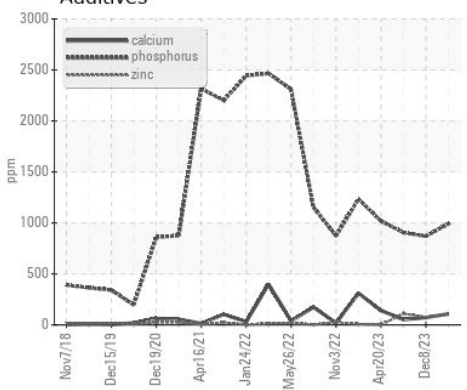
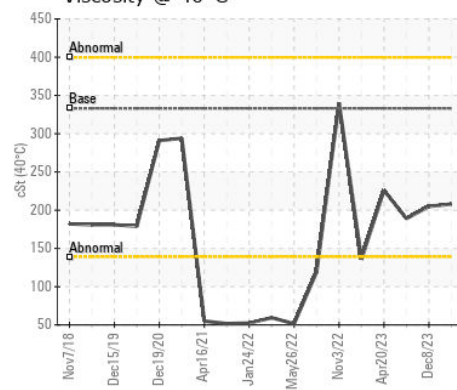
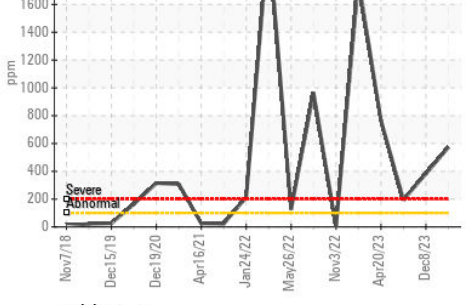
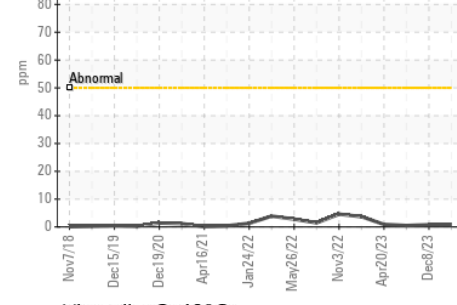
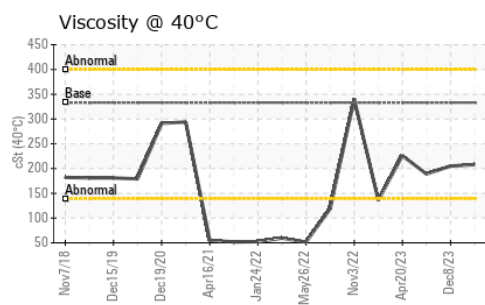
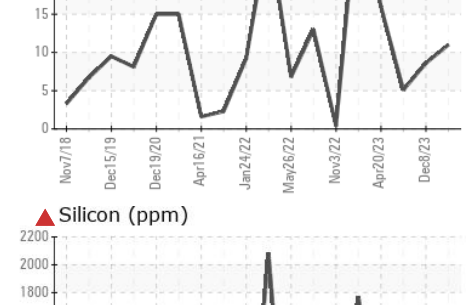
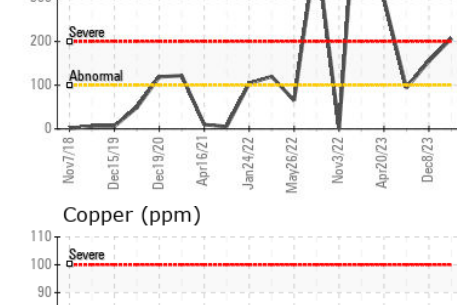
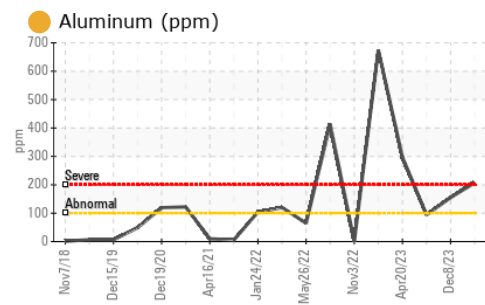
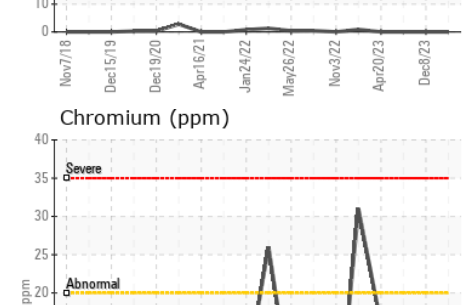
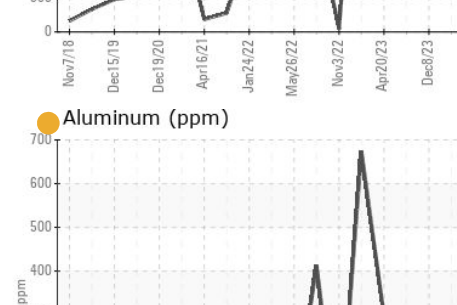
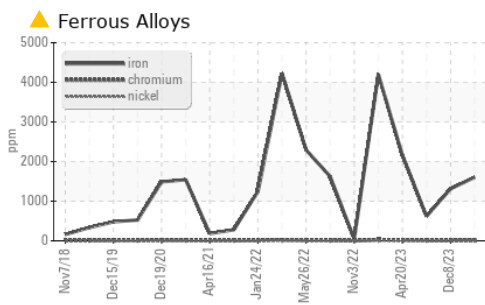
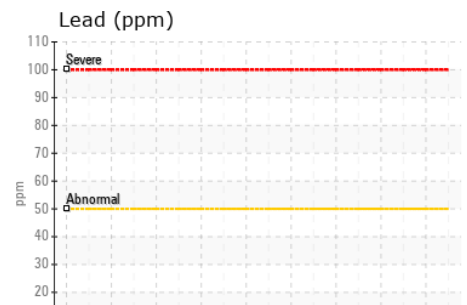
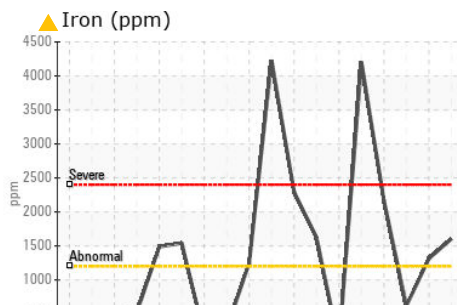
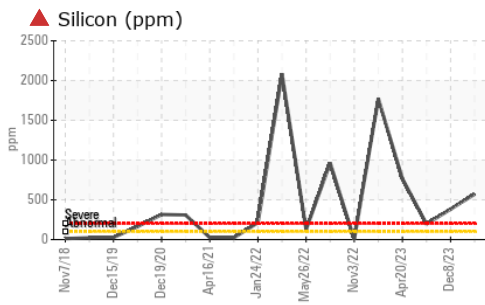
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>100	▲ 572	▲ 383	▲ 195
Potassium	ppm	ASTM D5185m	>20	15	10	7
Water		WC Method	>0.25	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	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	>0.25	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		30	28	15
Boron	ppm	ASTM D5185m	111	144	148	138
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.9	<1	<1	<1
Manganese	ppm	ASTM D5185m	0.0	12	11	5
Magnesium	ppm	ASTM D5185m	39	61	33	20
Calcium	ppm	ASTM D5185m	93	108	73	52
Phosphorus	ppm	ASTM D5185m	920	991	869	906
Zinc	ppm	ASTM D5185m	104	103	75	111
Sulfur	ppm	ASTM D5185m	20179	30157	26056	28147
Visc @ 40°C	cSt	ASTM D445	333	208	205	189



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0000888
Lab Number : 06125207
Unique Number : 10939358
Test Package : MOBCE

BLYTHE CONSTRUCTION INC
 2911 N GRAHAM STREET
 CHARLOTTE, NC
 US 28231
 Contact: Service Manager

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)