



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
VOLVO EC250EL 310605 - EC250EL
 Component
Rear Left Final Drive
 Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0010822	VCP324438	VCP315581
Sample Date		Client Info		20 Jun 2024	21 Jun 2021	21 Jun 2021
Machine Age	hrs	Client Info		3509	1669	1669
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	N/A	Changed
Sample Status				SEVERE	ABNORMAL	SEVERE

WEAR

The iron, chrome and nickel levels are severe. Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 19452	▲ 1023	▲ 1081
Chromium	ppm	ASTM D5185m	>10	▲ 275	▲ 11	▲ 18
Nickel	ppm	ASTM D5185m	>10	▲ 40	2	2
Titanium	ppm	ASTM D5185m		67	<1	4
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	● 434	3	● 19
Lead	ppm	ASTM D5185m	>25	5	<1	<1
Copper	ppm	ASTM D5185m	>50	24	2	1
Tin	ppm	ASTM D5185m	>10	4	<1	<1
Vanadium	ppm	ASTM D5185m		2	<1	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

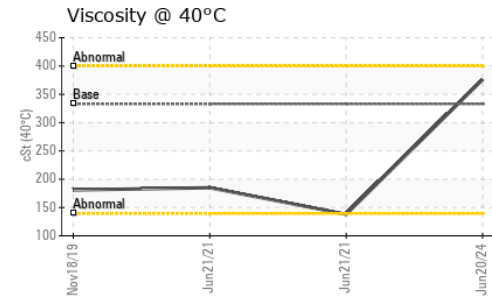
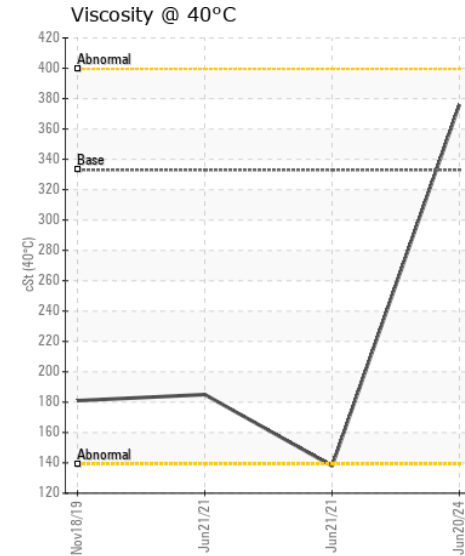
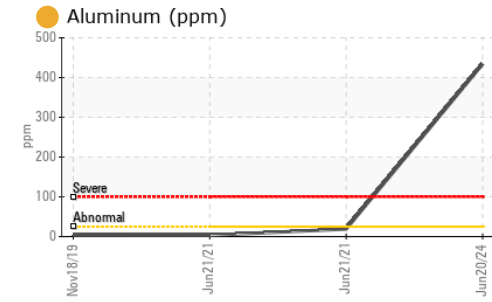
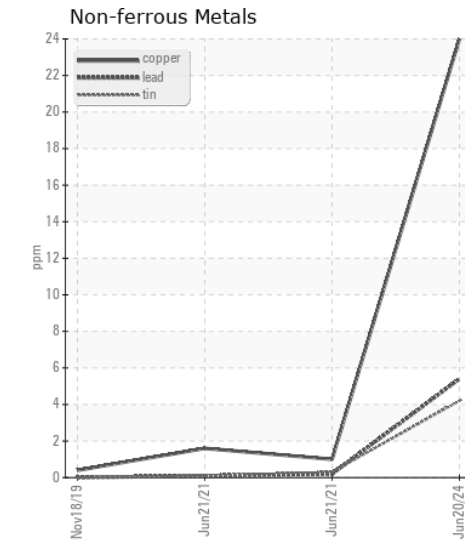
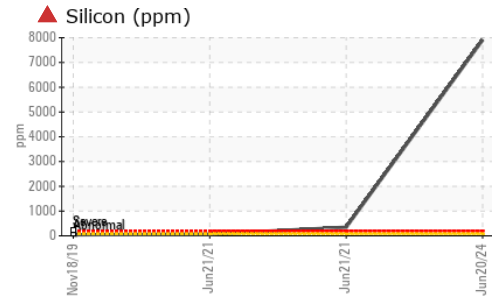
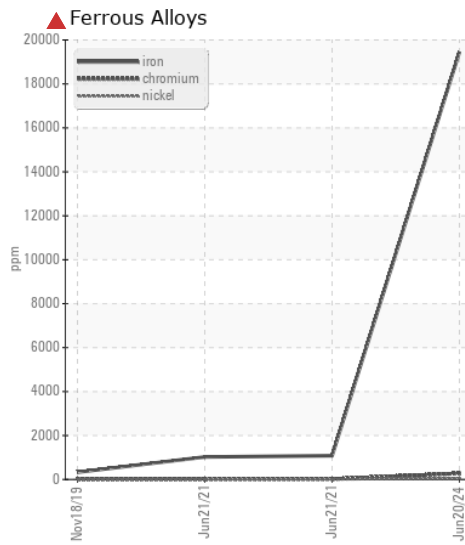
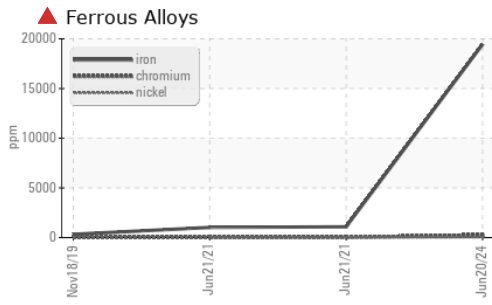
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 7906	68	▲ 347
Potassium	ppm	ASTM D5185m	>20	129	15	4
Water		WC Method	>0.2	NEG	NEG	NEG
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	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		59	<1	1
Boron	ppm	ASTM D5185m	111	61	130	3
Barium	ppm	ASTM D5185m	0.0	5	0	<1
Molybdenum	ppm	ASTM D5185m	0.9	42	2	2
Manganese	ppm	ASTM D5185m	0.0	184	10	11
Magnesium	ppm	ASTM D5185m	39	40	1	<1
Calcium	ppm	ASTM D5185m	93	189	7	6
Phosphorus	ppm	ASTM D5185m	920	481	992	225
Zinc	ppm	ASTM D5185m	104	38	3	0
Sulfur	ppm	ASTM D5185m	20179	61349	22840	12874
Visc @ 40°C	cSt	ASTM D445	333	376	138	185



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0010822
Lab Number : 06222926
Unique Number : 11101123
Test Package : CONST

Received : 27 Jun 2024
Tested : 28 Jun 2024
Diagnosed : 30 Jun 2024 - Don Baldrige

365 - ASCENDUM MACHINERY INC - SAVANNAH
 54 MEDLINE DR
 RICHMOND HILL, GA
 US 31324
 Contact: JESSE WILSON
 jesse.wilson@ascendummachinery.com

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)

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