



VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Area

[RENTALS]

Machine Id

VOLVO EC480 315121

Component

Diesel Engine

Fluid

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP440173	VCP422915	---
Sample Date		Client Info		17 Jun 2024	30 Jun 2023	---
Machine Age	hrs	Client Info		1782	593	---
Oil Age	hrs	Client Info		0	500	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

The copper level has decreased, but is still abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	7	5	---
Chromium	ppm	ASTM D5185m	>10	0	0	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>10	1	6	---
Lead	ppm	ASTM D5185m	>20	0	5	---
Copper	ppm	ASTM D5185m	>15	▲ 28	▲ 498	---
Tin	ppm	ASTM D5185m	>10	<1	1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

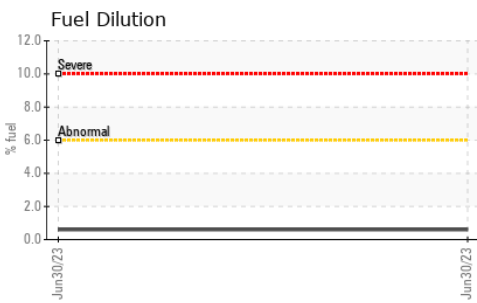
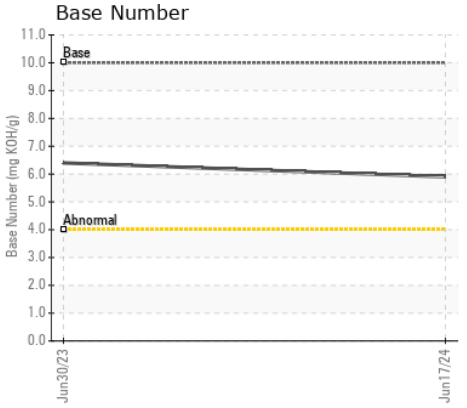
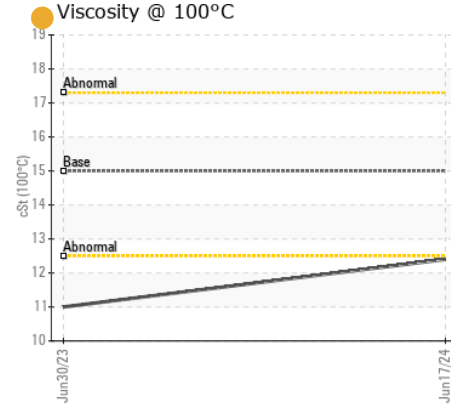
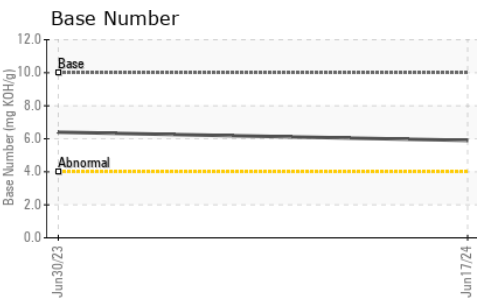
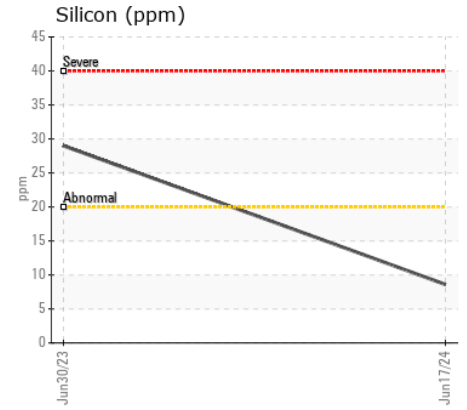
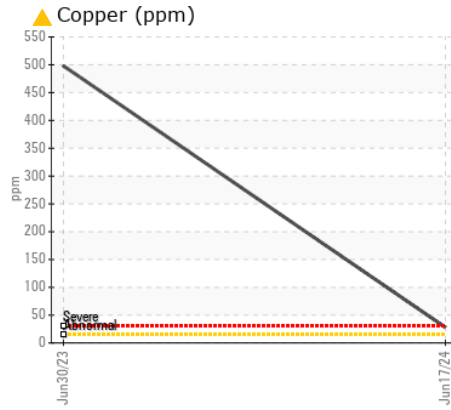
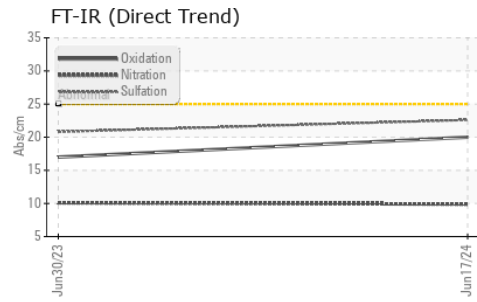
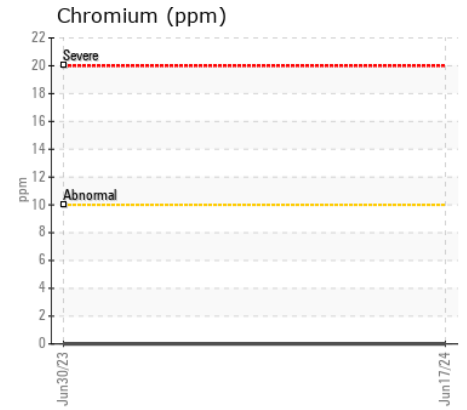
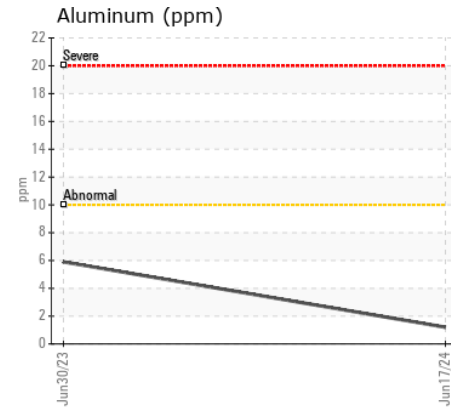
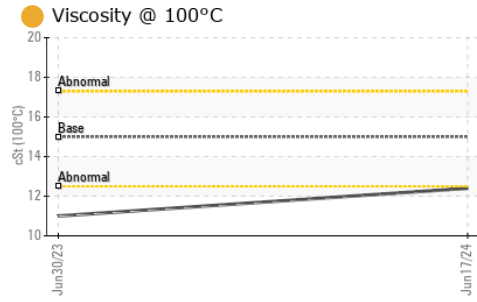
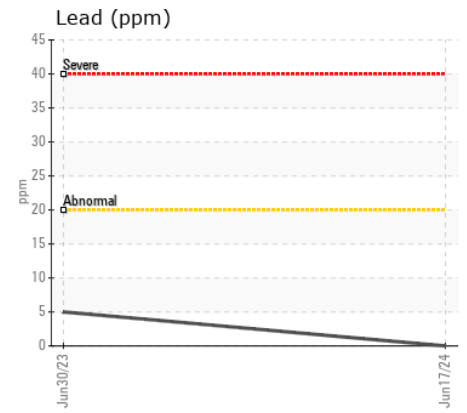
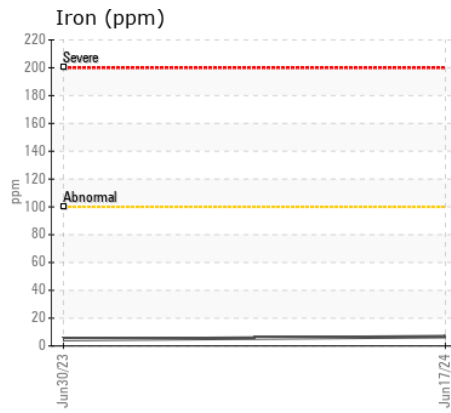
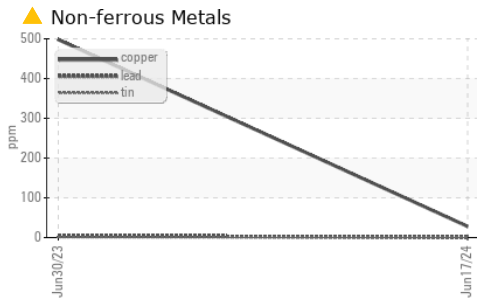
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	9	29	---
Potassium	ppm	ASTM D5185m	>20	0	4	---
Fuel	%	ASTM D3524	>6.0	<1.0	0.6	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	9.9	10.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	20.8	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		1	3	---
Boron	ppm	ASTM D5185m	2.5	10	41	---
Barium	ppm	ASTM D5185m	0.0	0	13	---
Molybdenum	ppm	ASTM D5185m	0.7	55	96	---
Manganese	ppm	ASTM D5185m	0.0	<1	2	---
Magnesium	ppm	ASTM D5185m	256	523	272	---
Calcium	ppm	ASTM D5185m	2057	1780	2384	---
Phosphorus	ppm	ASTM D5185m	935	939	1229	---
Zinc	ppm	ASTM D5185m	1223	1191	1429	---
Sulfur	ppm	ASTM D5185m	4079	3223	4822	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	17.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	5.9	6.4	---
Visc @ 100°C	cSt	ASTM D445	15.0	● 12.4	● 11.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP440173
Lab Number : 06217756
Unique Number : 11090620
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: KENNY HANEY
 khaney@flaglerce.com
 T: (813)630-0077
 F: (813)630-2233

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)