



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**TMR-Tampa Berth [702668]**

Machine Id  
**472146 VOLVO L260H 1195**

Component  
**Diesel Engine**

Fluid  
**VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- QTS)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP438841	VCP452231	DJJ0017041
Sample Date		Client Info		23 Apr 2024	24 Jan 2024	10 Apr 2023
Machine Age	hrs	Client Info		10740	10230	8866
Oil Age	hrs	Client Info		500	0	250
Filter Age	hrs	Client Info		0	0	250
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	3	2	4
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	<1	0
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

## CONTAMINATION

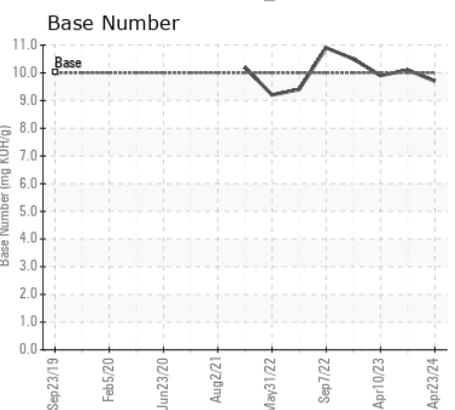
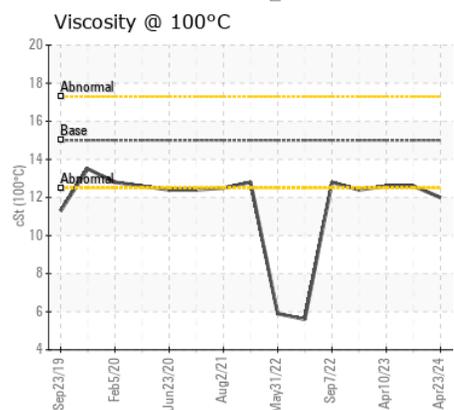
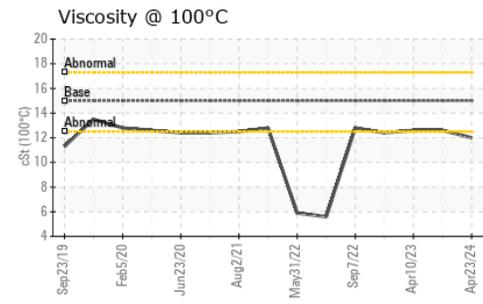
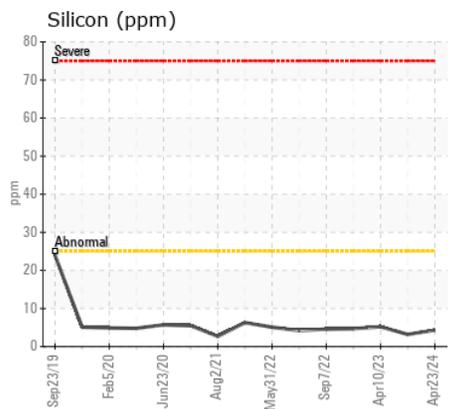
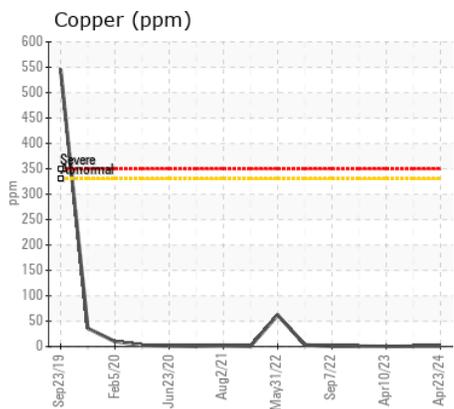
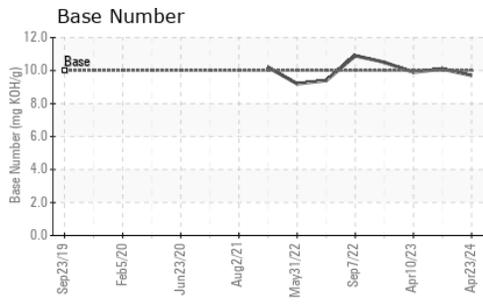
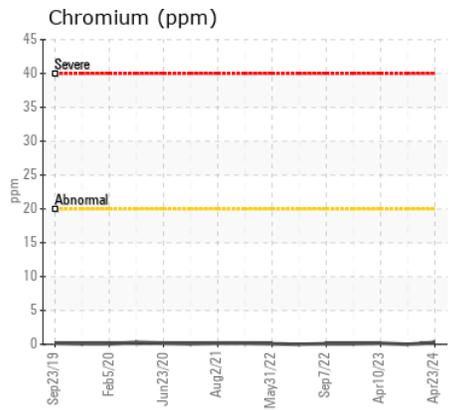
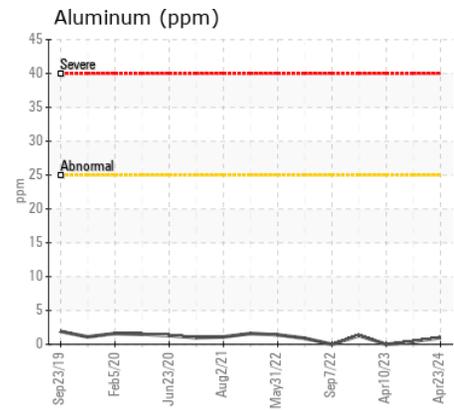
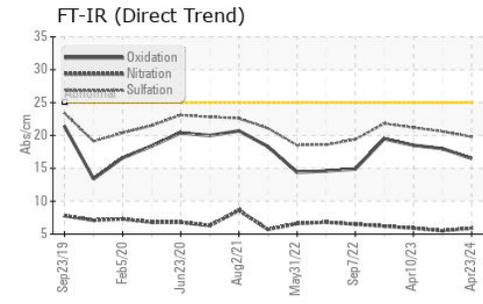
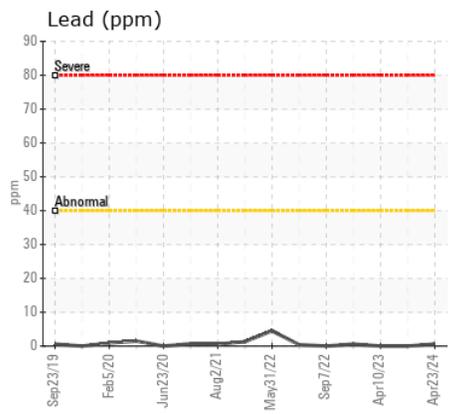
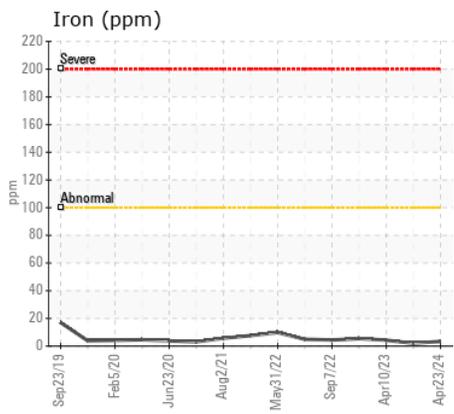
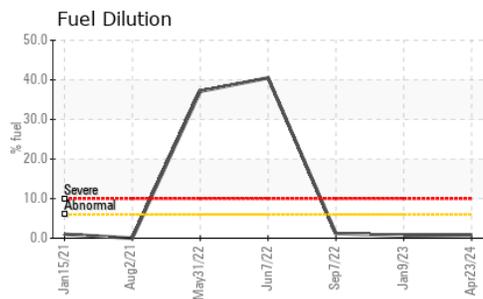
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	4	3	5
Potassium	ppm	ASTM D5185m	>20	1	2	1
Fuel	%	ASTM D3524	>6.0	0.8	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.9	5.5	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	20.6	21.2
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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<1	14	2
Boron	ppm	ASTM D5185m	2.5	60	52	44
Barium	ppm	ASTM D5185m	0.0	1	0	0
Molybdenum	ppm	ASTM D5185m	0.7	39	39	41
Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	256	489	497	461
Calcium	ppm	ASTM D5185m	2057	1382	1469	1468
Phosphorus	ppm	ASTM D5185m	935	842	878	845
Zinc	ppm	ASTM D5185m	1223	950	1012	1012
Sulfur	ppm	ASTM D5185m	4079	2688	2911	2724
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	18.0	18.5
Base Number (BN)	mg KOH/g	ASTM D2896	10	9.7	10.1	9.9
Visc @ 100°C	cSt	ASTM D445	15.0	12.0	12.6	12.6



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP438841  
**Lab Number** : 06194942  
**Unique Number** : 11057065  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel, TBN )

**TRADEMARK METALS RECYCLING - TAMPA BERTH**  
 3310 PORT SUTTON RD  
 TAMPA, FL  
 US 33619  
 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)

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