



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Area

GORMANS [5459]

Machine Id

1180

Component

Diesel Engine

Fluid

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



RECOMMENDATION

Check for low coolant level. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP392993	---	---
Sample Date		Client Info		20 Apr 2024	---	---
Machine Age	hrs	Client Info		3362	---	---
Oil Age	hrs	Client Info		1000	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	3	---	---
Chromium	ppm	ASTM D5185(m)	>10	0	---	---
Nickel	ppm	ASTM D5185(m)	>10	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>10	10	---	---
Lead	ppm	ASTM D5185(m)	>20	0	---	---
Copper	ppm	ASTM D5185(m)	>15	2	---	---
Tin	ppm	ASTM D5185(m)	>10	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

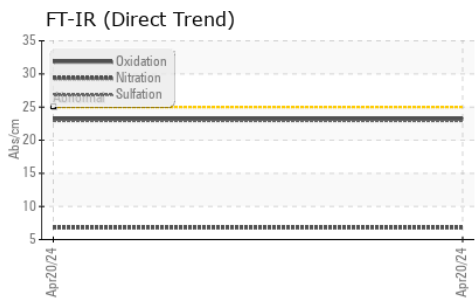
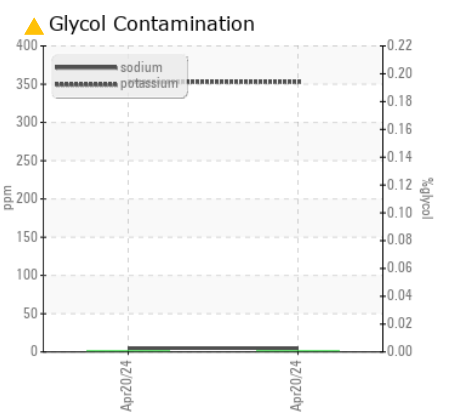
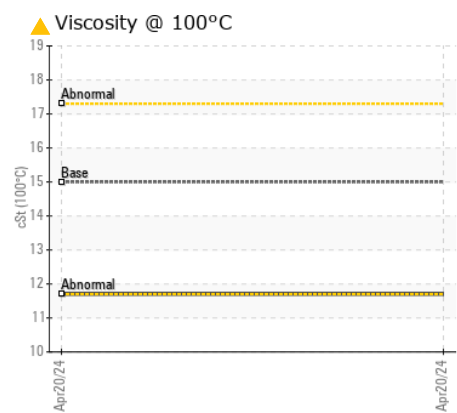
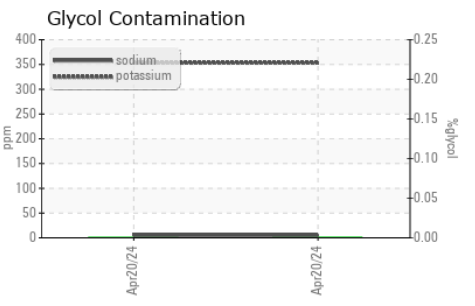
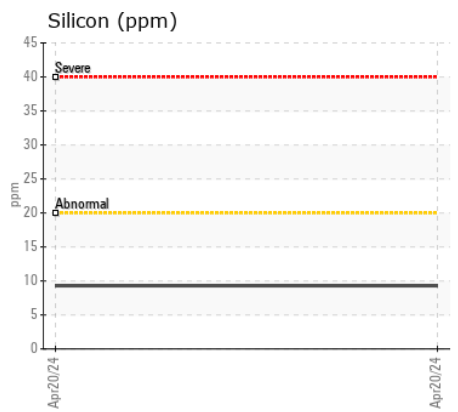
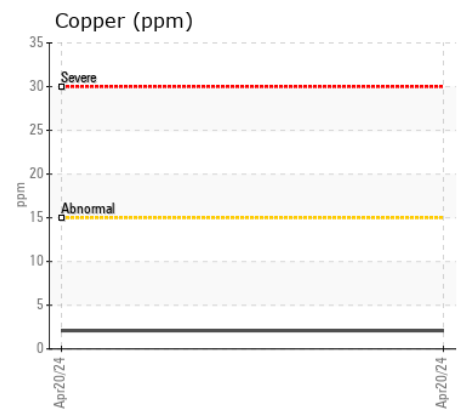
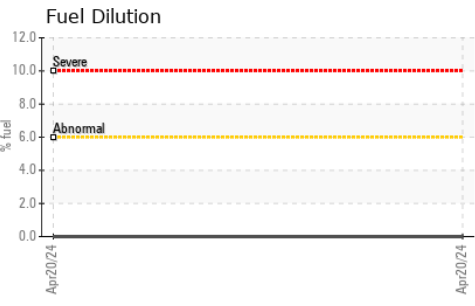
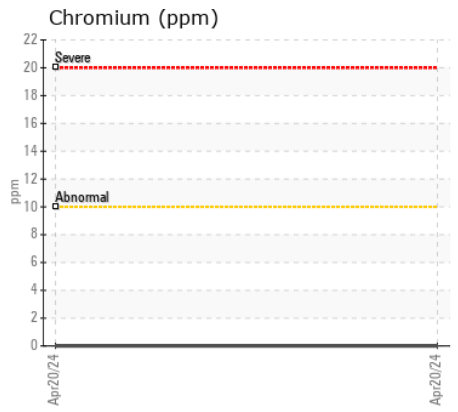
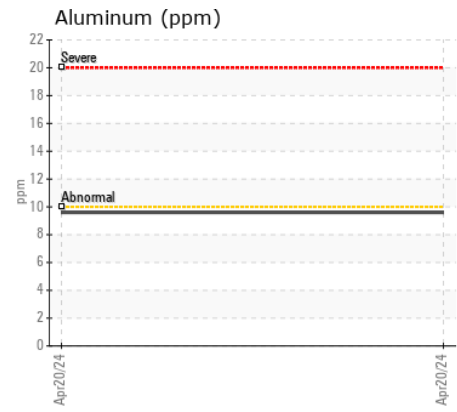
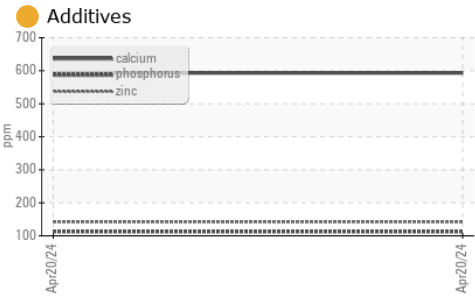
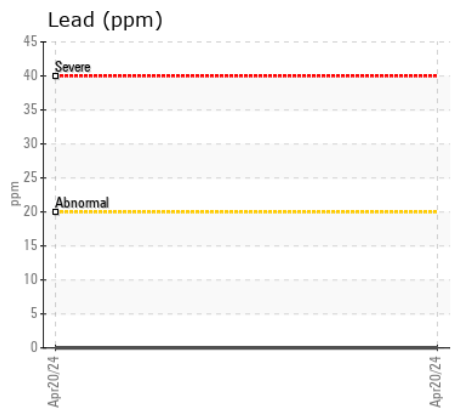
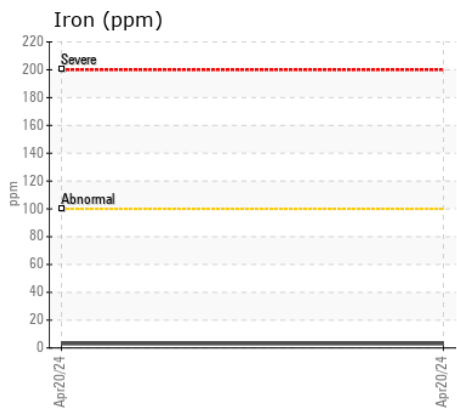
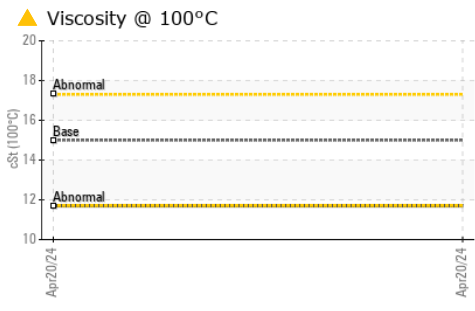
Water treatment chemicals present, indicating slow coolant leak. Tests indicate that there is no fuel present in the oil. Test for glycol is negative.

Silicon	ppm	ASTM D5185(m)	>20	9	---	---
Potassium	ppm	ASTM D5185(m)	>20	▲ 353	---	---
Fuel	%	ASTM D7593*	>6.0	0.0	---	---
Water		WC Method	>0.1	NEG	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*	>3	0.1	---	---
Nitration	Abs/cm	ASTM D7624*	>20	6.8	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.9	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service (see recommendation).

Sodium	ppm	ASTM D5185(m)		5	---	---
Boron	ppm	ASTM D5185(m)	2.5	● 495	---	---
Barium	ppm	ASTM D5185(m)	0.0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0.7	● 942	---	---
Manganese	ppm	ASTM D5185(m)	0.0	0	---	---
Magnesium	ppm	ASTM D5185(m)	256	141	---	---
Calcium	ppm	ASTM D5185(m)	2057	● 593	---	---
Phosphorus	ppm	ASTM D5185(m)	935	● 113	---	---
Zinc	ppm	ASTM D5185(m)	1223	● 142	---	---
Sulfur	ppm	ASTM D5185(m)	4079	● 1598	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	23.2	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	▲ 11.7	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP392993
Lab Number : 02634514
Unique Number : 5775667
Test Package : MOB 1 (Additional Tests: FUELDILUTION, Glycol, PercentFuel)

GREAT WEST EQUIPMENT
 1600 KOSMINA ROAD, 123 L&A CROSS RD
 VERNON, BC
 CA V1T 8T2
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 F: (250)549-3397

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.