MOB I

VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL

Area
[397276]
Machine Id
16-8019
Component
Diesel Engine
Fluid
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

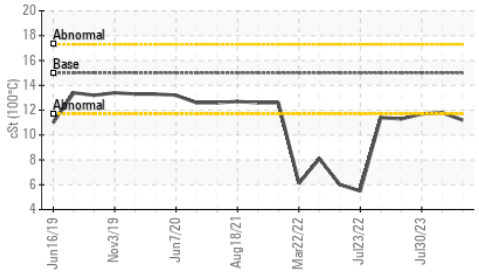
Light fuel dilution occurring.

FLUID CONDITION

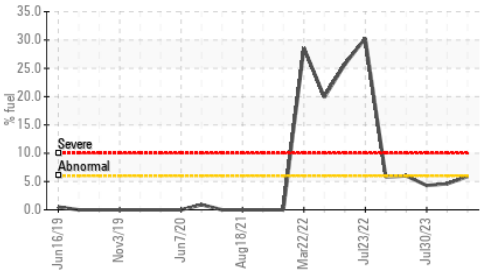
Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**VCP448050**	VCP394197	VCP394816
Sample Date		Client Info		**05 Apr 2024**	29 Oct 2023	30 Jul 2023
Machine Age	hrs	Client Info		**11500**	11000	10509
Oil Age	hrs	Client Info		**500**	500	500
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>100	**5**	4	4
Chromium	ppm	ASTM D5185(m)	>10	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>10	**0**	0	0
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>2	**0**	<1	0
Aluminum	ppm	ASTM D5185(m)	>10	**1**	1	1
Lead	ppm	ASTM D5185(m)	>20	**0**	<1	<1
Copper	ppm	ASTM D5185(m)	>15	**<1**	<1	1
Tin	ppm	ASTM D5185(m)	>10	**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>20	**3**	5	5
Potassium	ppm	ASTM D5185(m)	>20	**<1**	0	<1
Fuel	%	ASTM D7593*	>6.0	▲ **5.9**	4.6	4.3
Water		WC Method	>0.1	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	ASTM D7844*	>3	**0**	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	**7.4**	7.1	7.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	**22.0**	22.1	22.7
Emulsified Water	scalar	Visual*	>0.1	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**2**	2	2
Boron	ppm	ASTM D5185(m)	2.5	**42**	32	32
Barium	ppm	ASTM D5185(m)	0.0	**0**	<1	0
Molybdenum	ppm	ASTM D5185(m)	0.7	**38**	38	38
Manganese	ppm	ASTM D5185(m)	0.0	**<1**	0	<1
Magnesium	ppm	ASTM D5185(m)	256	**478**	463	480
Calcium	ppm	ASTM D5185(m)	2057	**1590**	1610	1535
Phosphorus	ppm	ASTM D5185(m)	935	**874**	860	930
Zinc	ppm	ASTM D5185(m)	1223	**1028**	1009	1014
Sulfur	ppm	ASTM D5185(m)	4079	**2281**	2232	2286
Oxidation	Abs/.1mm	ASTM D7414*	>25	**19.8**	19.8	19.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	▲ **11.2**	11.8	▲ 11.7

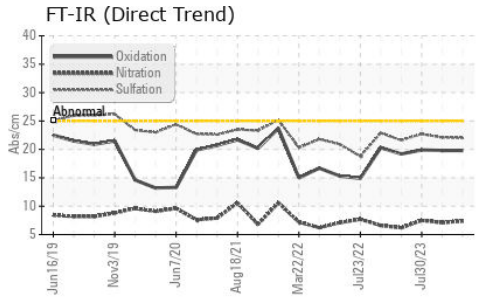
Viscosity @ 100°C



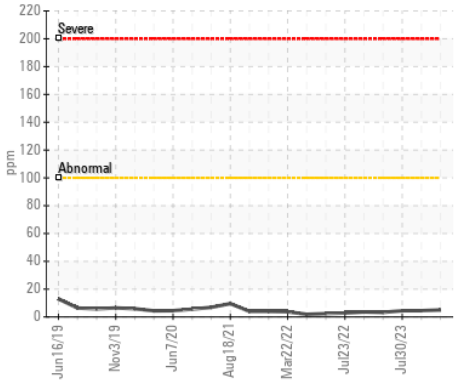
Fuel Dilution



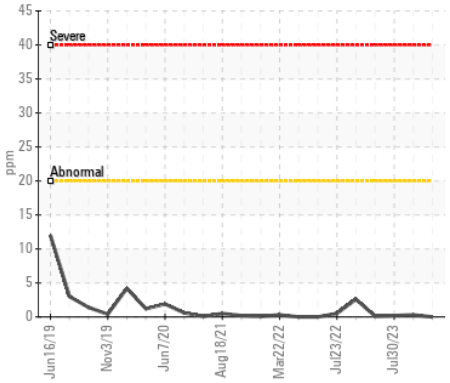
FT-IR (Direct Trend)



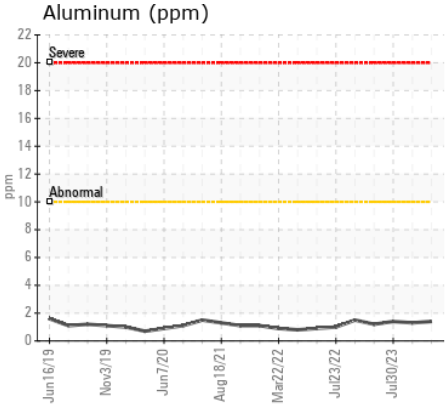
Iron (ppm)



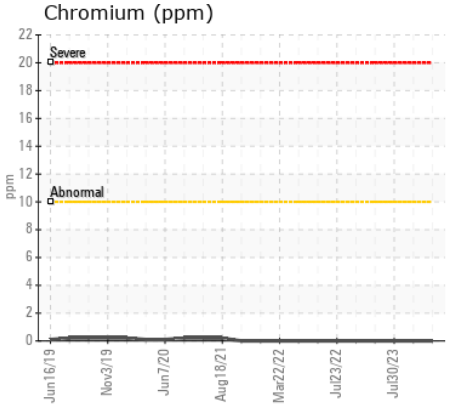
Lead (ppm)



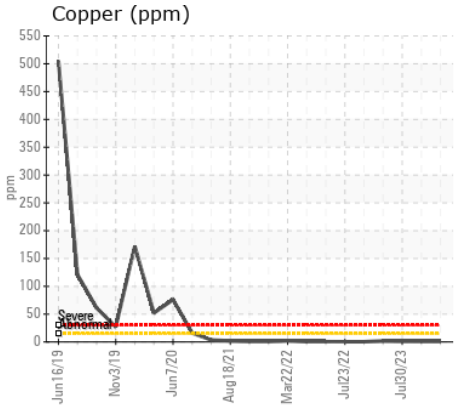
Aluminum (ppm)



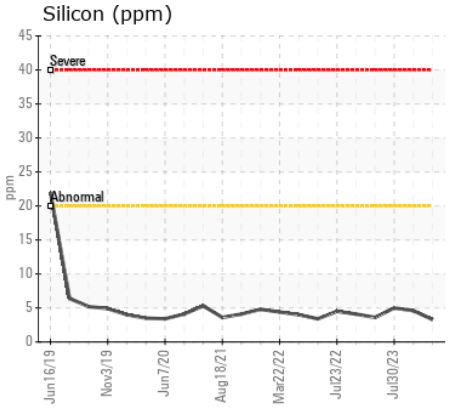
Chromium (ppm)



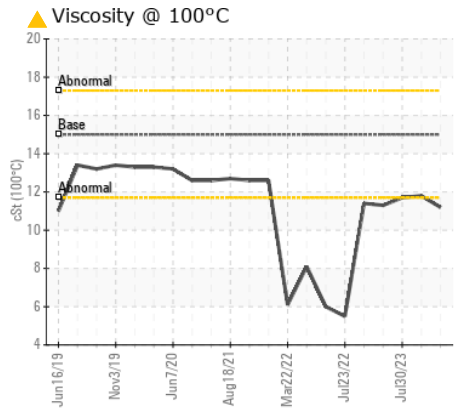
Copper (ppm)



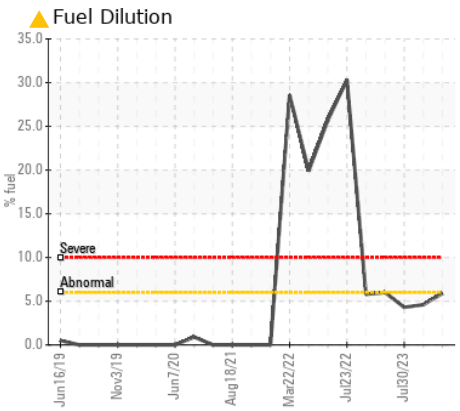
Silicon (ppm)



Viscosity @ 100°C



Fuel Dilution



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP448050 **Received** : 10 Apr 2024
Lab Number : 02627841 **Tested** : 11 Apr 2024
Unique Number : 5760973 **Diagnosed** : 11 Apr 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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.

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