CONSTRUCTION EQUIPMENT
3975HR VOLVO A25E 73047 - DIESEL ENGINE

Sample No: VCP356610
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 3975HR

SAMPLE INFORMATION

Sample Number		**VCP356610**	VCP158662	VCP161158	VCP160182
Sample Date		**22 Jun 2023**	16 Sep 2014	11 Jun 2014	05 May 2014
Machine Hours		**16040**	9996	9507	9342
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Changed	Changed	Changed
Sample Status		**SEVERE**	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 100°C	cSt	▲ **10.4**	13.64	13.47	13.37
Base Number (BN)	mg KOH/g	**6.2**	---	---	---
Oxidation (PA)	%	**55**	36	44	48

CONTAMINATION

Water	%	**---**	0.12	---	---
Soot %	%	**0.6**	0.4	0.1	0.5
Nitration (PA)	%	**73**	42	50	50
Sulfation (PA)	%	**52**	42	44	44
Glycol	%	**NEG**	NEG	NEG	NEG
Fuel	%	⬢ **8.6**	<1.0	<1.0	<1.0
Silicon	ppm	**4**	2	2	1
Sodium	ppm	**<1**	4	4	4
Potassium	ppm	**1**	1	1	1

WEAR METALS

Iron	ppm	**17**	5	6	10
Copper	ppm	**4**	<1	<1	2
Lead	ppm	**<1**	<1	0	2
Tin	ppm	**<1**	<1	2	<1
Aluminum	ppm	**<1**	1	2	1
Chromium	ppm	**<1**	<1	<1	<1
Molybdenum	ppm	**76**	44	46	44
Nickel	ppm	**0**	<1	<1	<1
Titanium	ppm	**0**	2	1	<1
Silver	ppm	**0**	0	0	0
Manganese	ppm	**<1**	<1	2	2
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**1769**	1331	1319	1294
Magnesium	ppm	**177**	805	795	795
Zinc	ppm	**1092**	1028	1021	1047
Phosphorus	ppm	**938**	940	941	965
Barium	ppm	**0**	0	0	0
Boron	ppm	**43**	44	41	32

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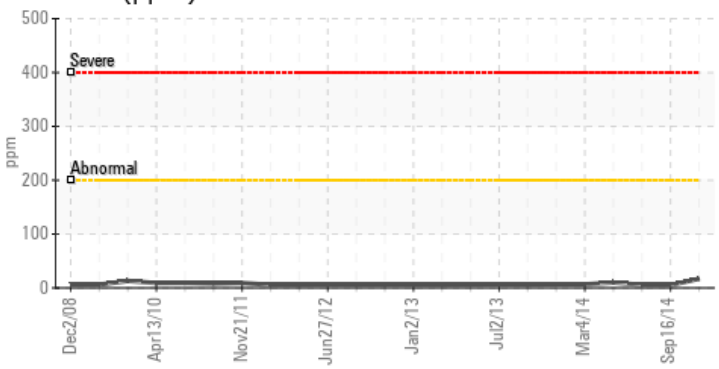
Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

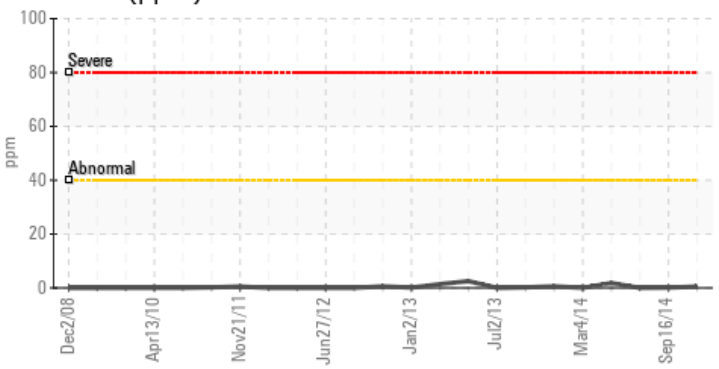
Depot: VOLVO0025
Unique No: 10538765
Signed: Wes Davis
Report Date: 05 Jul 2023

GRAPHS

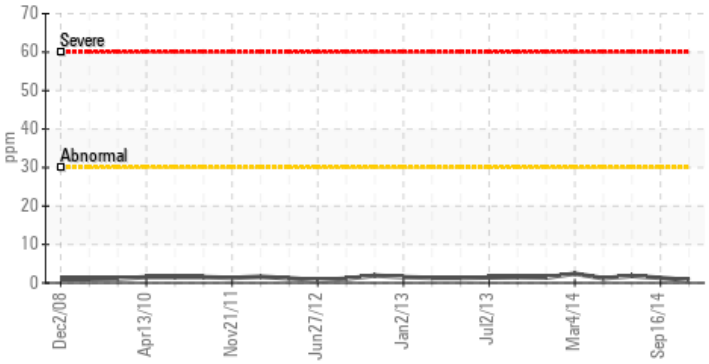
Iron (ppm)



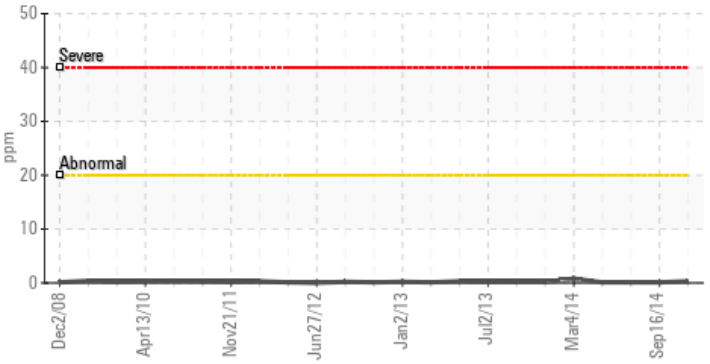
Lead (ppm)



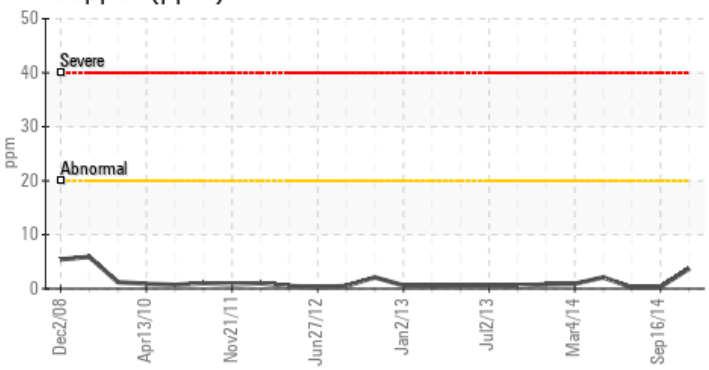
Aluminum (ppm)



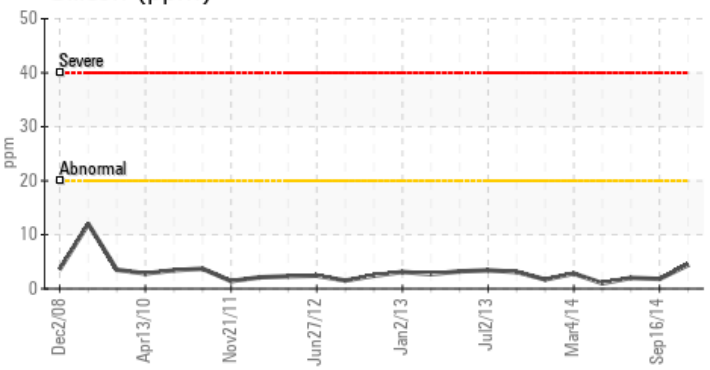
Chromium (ppm)



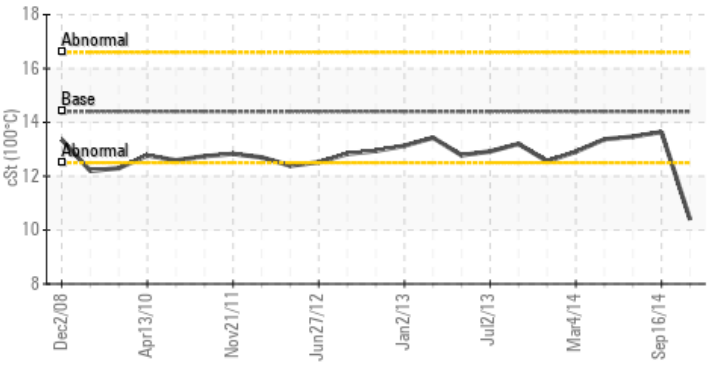
Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number