CONSTRUCTION EQUIPMENT

TRIPLE M METAL MLF-MAR14-021 VOLVO A30G 752850 - DIESEL ENGINE

Sample No: VCP4448146

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No: MLF-MAR14-021

SAMPLE INFORMATION

Sample Number		**VCP4448146**	VCP394373	VCP391613	VCP380143
Sample Date		**19 Mar 2024**	06 Feb 2024	09 Jan 2024	06 Oct 2023
Machine Hours		**6678**	17773	5625	4419
Oil Hours		**500**	0	0	0
Oil Changed		**Changed**	Not Changd	Changed	Not Changd
Sample Status		**NORMAL**	NORMAL	ABNORMAL	NORMAL

OIL CONDITION

Visc @ 100°C	cSt	**12.6**	12.8	▲ 11.7	12.6
Oxidation (PA)	%	**81**	78	81	88

CONTAMINATION

Water	%	**NEG**	NEG	0.112	NEG
Soot %	%	**0**	0	0	0.1
Nitration (PA)	%	**56**	53	61	68
Sulfation (PA)	%	**62**	62	63	64
Glycol	%	**NEG**	NEG	0.0	NEG
Fuel	%	**<1.0**	<1.0	1.5	<1.0
Silicon	ppm	**2**	3	3	4
Sodium	ppm	**2**	2	2	2
Potassium	ppm	**<1**	<1	<1	0

WEAR METALS

Iron	ppm	**5**	5	6	10
Copper	ppm	**<1**	<1	<1	2
Lead	ppm	**0**	0	0	<1
Tin	ppm	**0**	0	0	<1
Aluminum	ppm	**1**	3	3	1
Chromium	ppm	**0**	0	<1	0
Molybdenum	ppm	**40**	41	37	43
Nickel	ppm	**<1**	<1	<1	0
Titanium	ppm	**0**	0	0	0
Silver	ppm	**0**	0	0	<1
Manganese	ppm	**0**	0	0	0
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**1664**	1689	1888	1658
Magnesium	ppm	**527**	553	451	554
Zinc	ppm	**1081**	1090	1123	1102
Phosphorus	ppm	**934**	970	958	940
Barium	ppm	**0**	0	0	<1
Boron	ppm	**44**	45	48	25

STRONGCO EQUIPMENT (CE)
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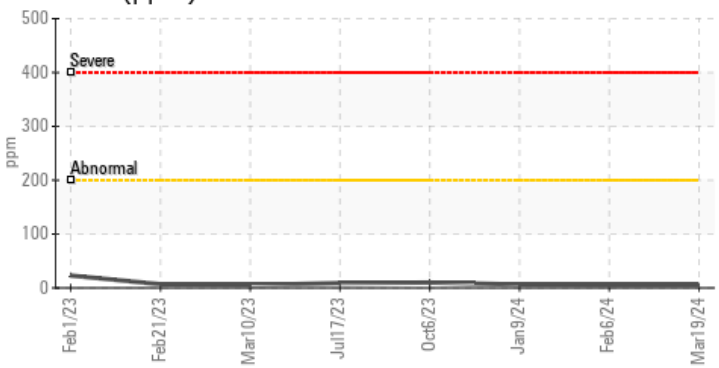
Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

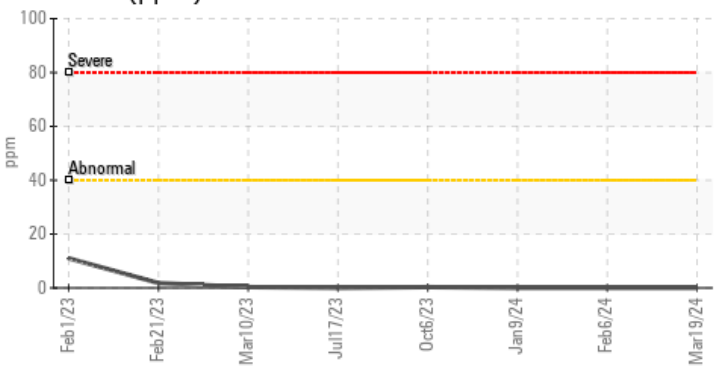
Depot: VOLVO0252
Unique No: 5748803
Signed: Wes Davis
Report Date: 21 Mar 2024

GRAPHS

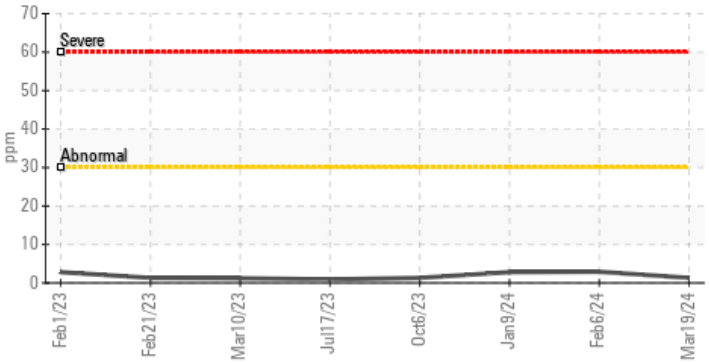
Iron (ppm)



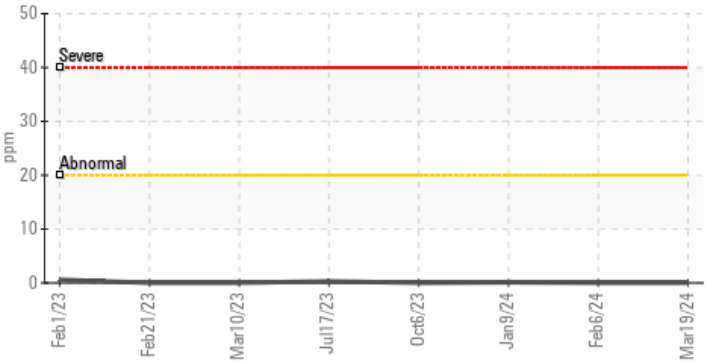
Lead (ppm)



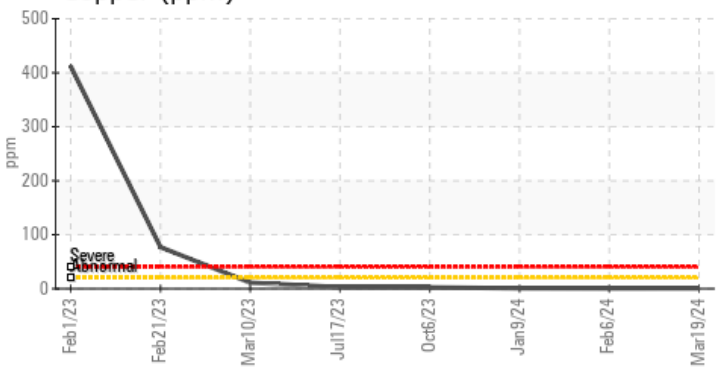
Aluminum (ppm)



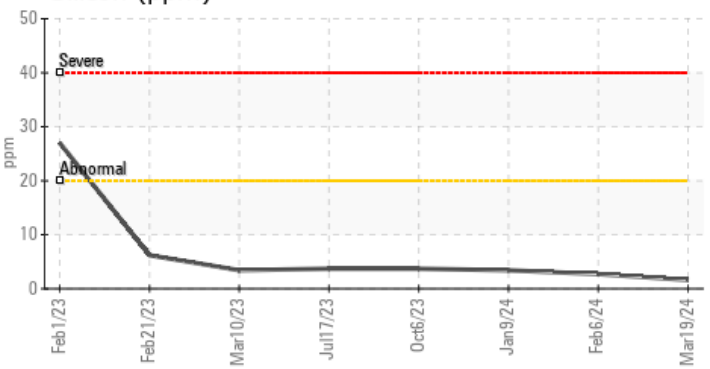
Chromium (ppm)



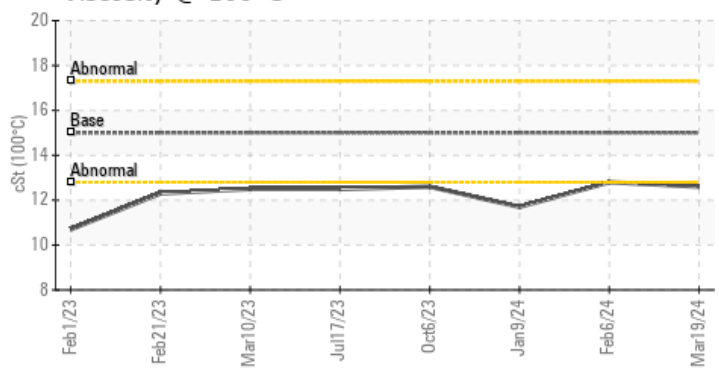
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %