



CONSTRUCTION EQUIPMENT

IAA VOLVO L90H 623705 - DIESEL ENGINE



Sample No: VCP451355
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: IAA



SAMPLE INFORMATION

Sample Number	VCP451355	VCP420228	VCP385153	VCP376736
Sample Date	15 May 2024	21 Apr 2023	21 Nov 2022	18 Jul 2022
Machine Hours	12273	10435	9800	8267
Oil Hours	0	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.6	13.6	13.3
Base Number (BN)	mg KOH/g	8.6	10.2	11.0	11.9
Oxidation (PA)	%	80	78	65	86

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.3	0.3	0.4
Nitration (PA)	%	73	59	58	65
Sulfation (PA)	%	61	59	57	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	3	5
Sodium	ppm	1	2	<1	0
Potassium	ppm	2	2	0	<1



WEAR METALS

Iron	ppm	7	5	4	7
Copper	ppm	2	<1	<1	<1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	6	4	3	7
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	42	82	55	44
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1680	1524	1206	1674
Magnesium	ppm	484	569	915	483
Zinc	ppm	1094	1146	1330	1116
Phosphorus	ppm	945	949	1017	958
Barium	ppm	0	0	0	2
Boron	ppm	43	40	5	55

Depot: VOLVO0093
Unique No: 11035287
Signed: Wes Davis
Report Date: 21 May 2024

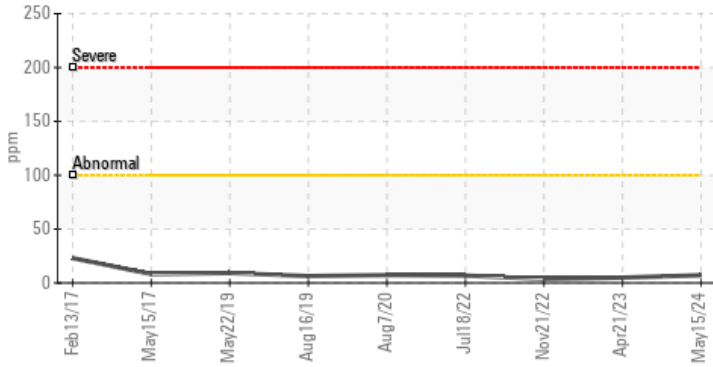


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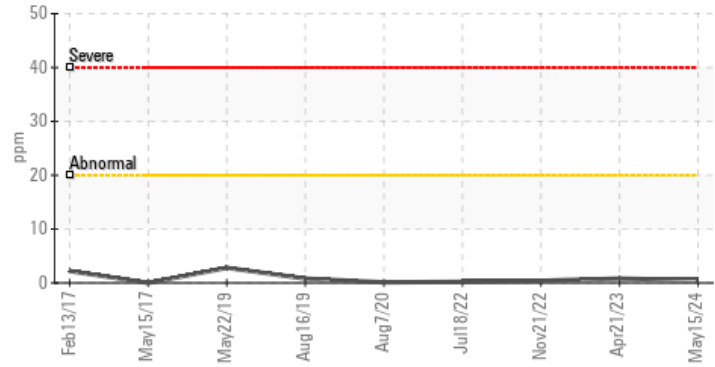


GRAPHS

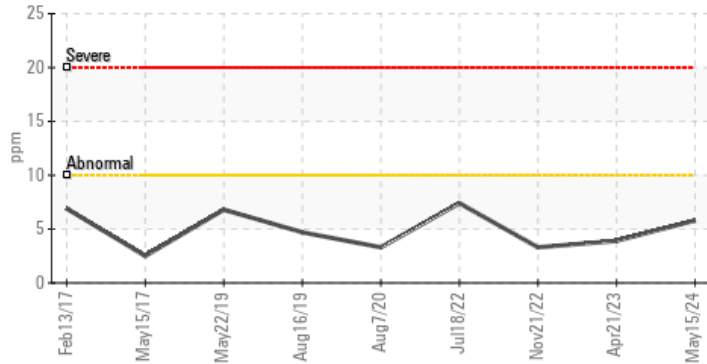
Iron (ppm)



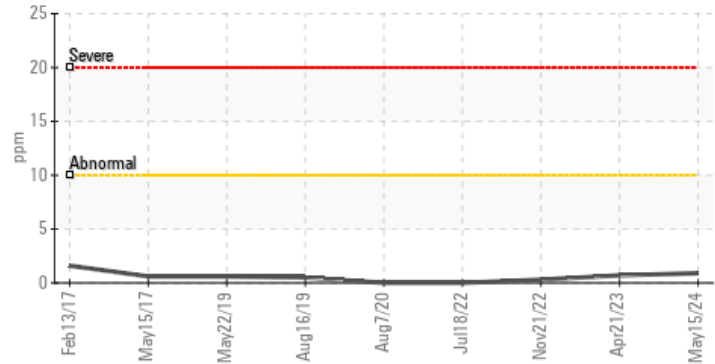
Lead (ppm)



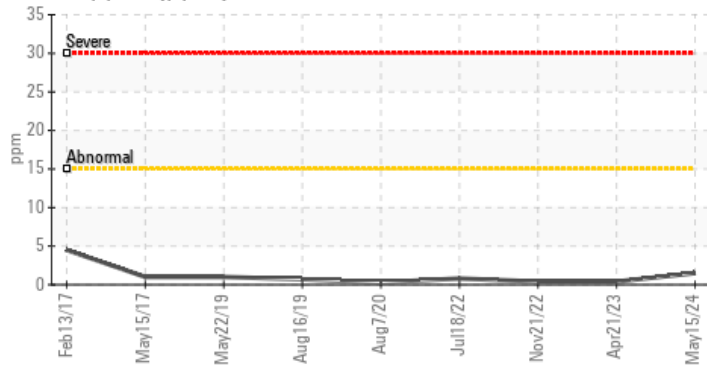
Aluminum (ppm)



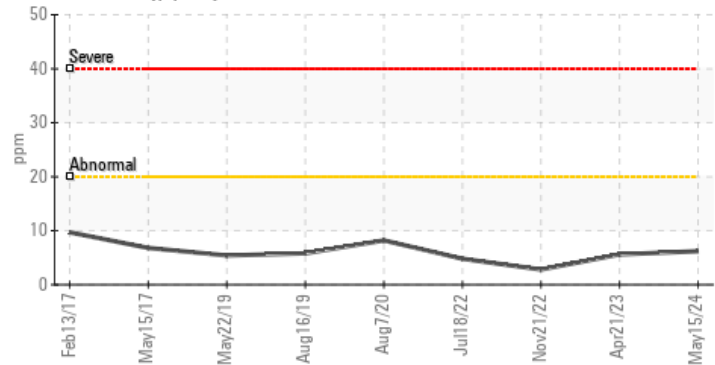
Chromium (ppm)



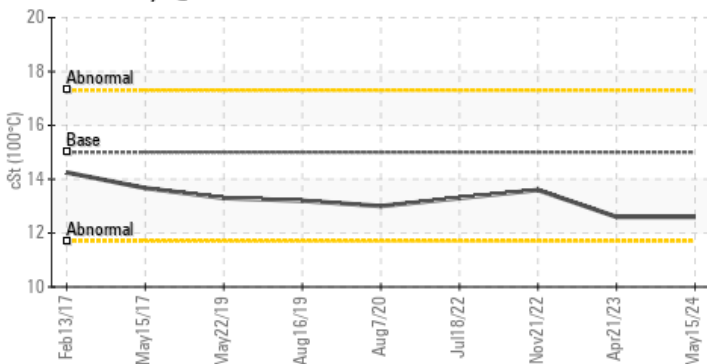
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

