



CONSTRUCTION EQUIPMENT

534598 GEN ASPHALT VOLVO L90H 623733 - DIESEL ENGINE



Sample No: VCP451078
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 534598 GEN ASPHALT



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SAMPLE INFORMATION

Sample Number	VCP451078	VCP438942	VCP440988	VCP425449
Sample Date	15 Apr 2024	22 Jan 2024	12 Oct 2023	29 Jun 2023
Machine Hours	12275	7807	7240	6673
Oil Hours	500	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	15.3	13.7	13.7	14.3
Base Number (BN)	mg KOH/g	7.6	9.4	9.1	6.6
Oxidation (PA)	%	66	87	83	80



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.8	0.4	0.4	0.5
Nitration (PA)	%	76	73	73	77
Sulfation (PA)	%	54	63	63	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	13	6	7	6
Sodium	ppm	3	2	2	2
Potassium	ppm	3	2	0	2



WEAR METALS

Iron	ppm	43	8	9	12
Copper	ppm	4	0	<1	<1
Lead	ppm	<1	<1	0	0
Tin	ppm	2	<1	<1	<1
Aluminum	ppm	▲ 22	4	2	5
Chromium	ppm	3	<1	<1	<1
Molybdenum	ppm	49	51	58	96
Nickel	ppm	<1	0	0	<1
Titanium	ppm	8	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1629	1671	1574	1605
Magnesium	ppm	634	519	417	468
Zinc	ppm	1218	1212	1055	1454
Phosphorus	ppm	1078	1011	886	1158
Barium	ppm	0	0	0	0
Boron	ppm	12	116	100	214

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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.

Depot: VOLVO0093
Unique No: 11036748
Signed: Jonathan Hester
Report Date: 23 May 2024

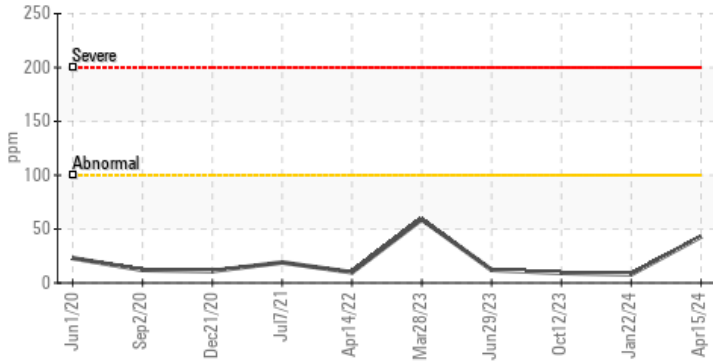


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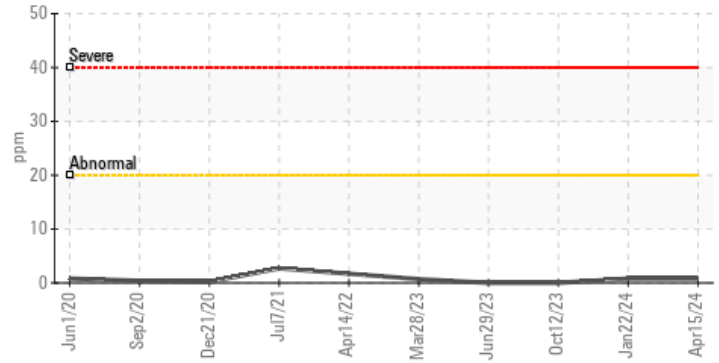


GRAPHS

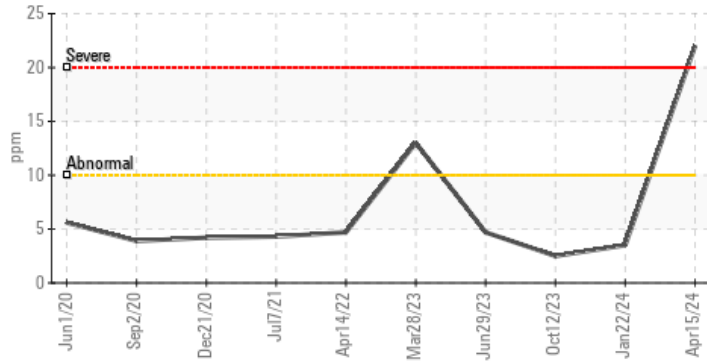
Iron (ppm)



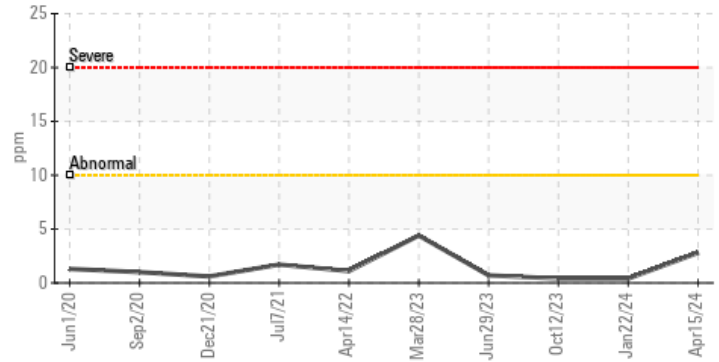
Lead (ppm)



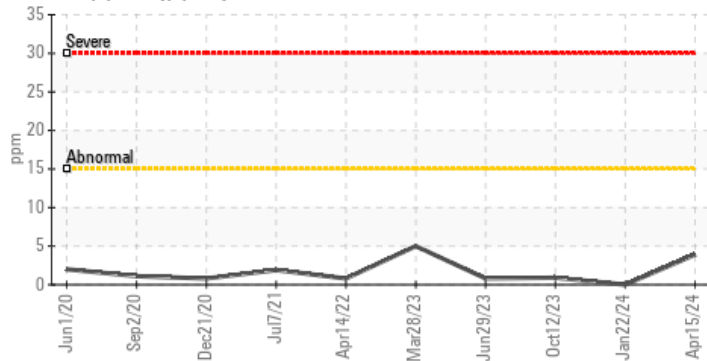
Aluminum (ppm)



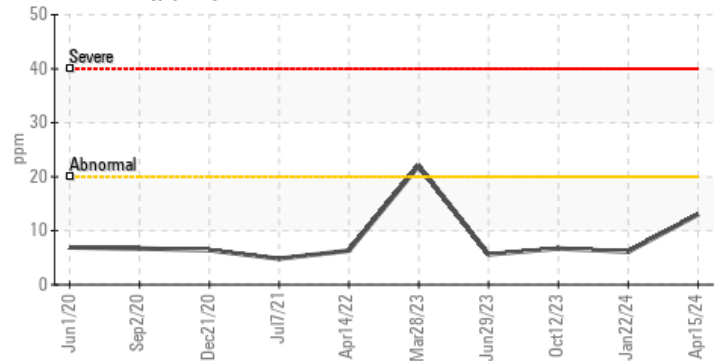
Chromium (ppm)



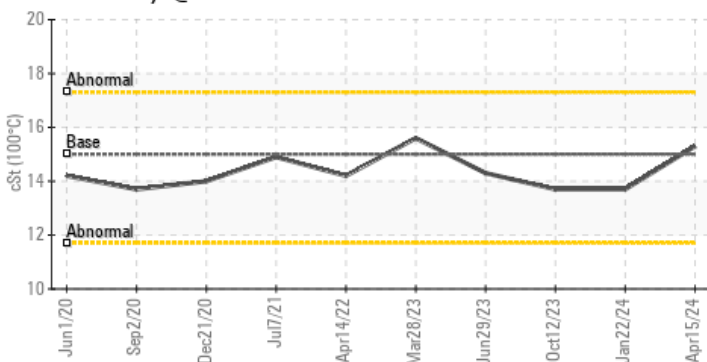
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

