



CONSTRUCTION EQUIPMENT

25680 VOLVO L70H 62432Z - DIESEL ENGINE



Sample No: VCP453715
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25680



SAMPLE INFORMATION

Sample Number	VCP453715	VCP408864	VCP429017	VCP426916
Sample Date	16 May 2024	21 Mar 2024	08 Dec 2023	10 Aug 2023
Machine Hours	6447	6082	5313	4406
Oil Hours	0	0	1000	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.5	12.8	13.0
Base Number (BN)	mg KOH/g	10.4	10.1	9.9	9.8
Oxidation (PA)	%	80	83	84	82

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	52	63	67	69
Sulfation (PA)	%	59	60	60	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	8	6
Sodium	ppm	3	3	3	3
Potassium	ppm	1	2	2	<1

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.

WEAR METALS

Iron	ppm	4	8	13	12
Copper	ppm	2	1	2	2
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	1	<1
Aluminum	ppm	2	3	4	3
Chromium	ppm	0	<1	1	1
Molybdenum	ppm	39	42	46	42
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	<1

ADDITIVES

Calcium	ppm	1688	1701	1764	1825
Magnesium	ppm	506	506	587	544
Zinc	ppm	1125	1152	1227	1152
Phosphorus	ppm	960	972	972	947
Barium	ppm	0	0	11	0
Boron	ppm	51	42	39	34

Depot: VOLVO3387
Unique No: 11042543
Signed: Wes Davis
Report Date: 22 May 2024

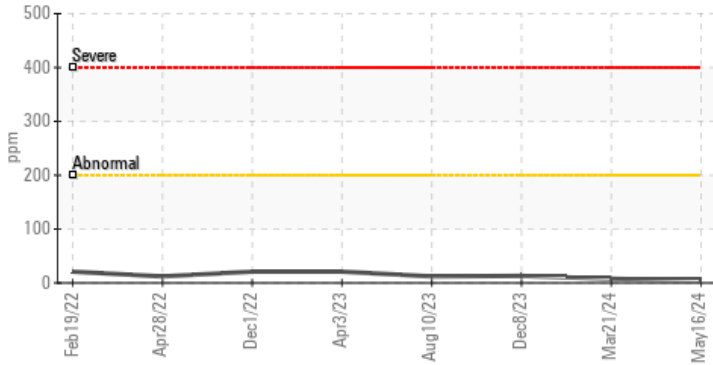


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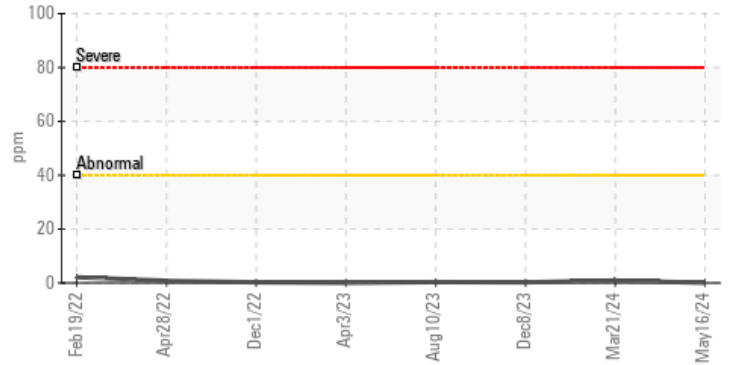


GRAPHS

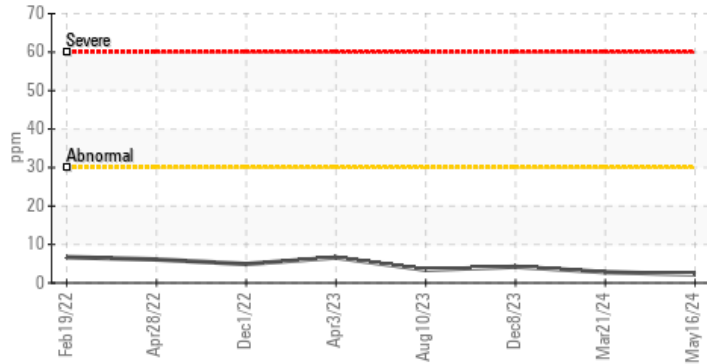
Iron (ppm)



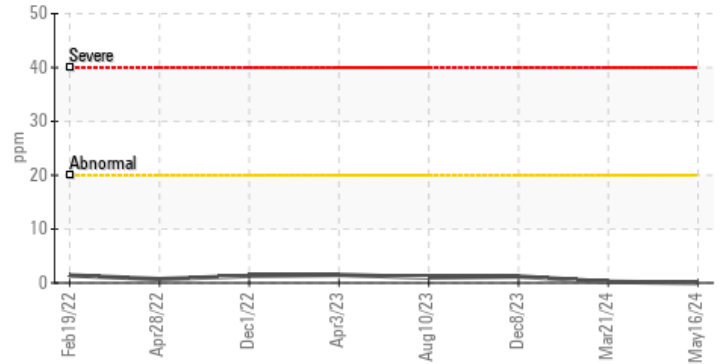
Lead (ppm)



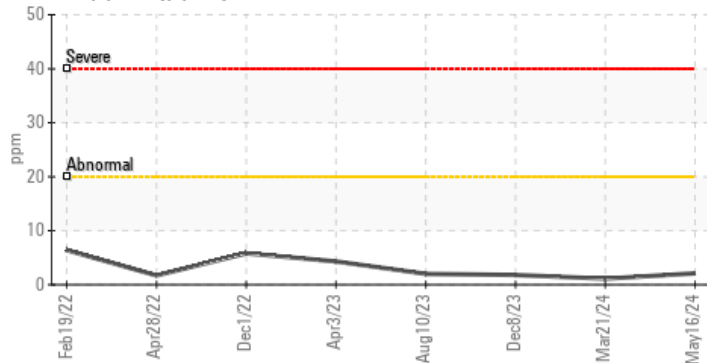
Aluminum (ppm)



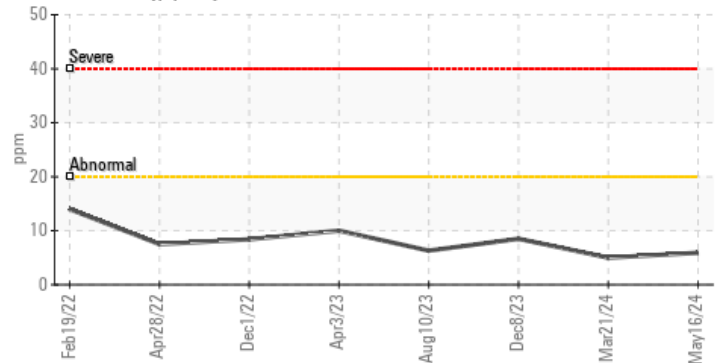
Chromium (ppm)



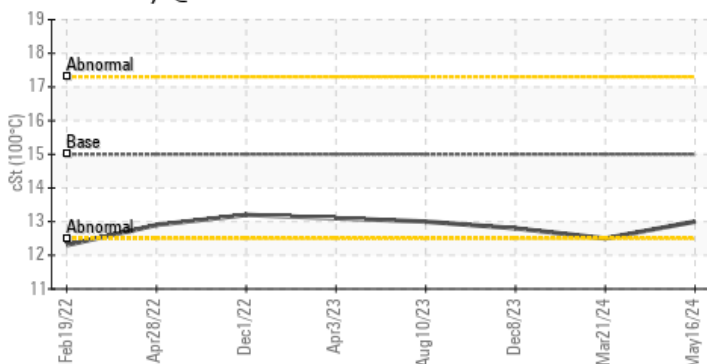
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

