



CONSTRUCTION EQUIPMENT

25804 VOLVO EC250EL 314118 - DIESEL ENGINE



Sample No: VCP447689
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25804



SAMPLE INFORMATION

Sample Number	VCP447689	VCP429280	VCP404628	VCP364954
Sample Date	06 Jun 2024	14 Dec 2023	29 Jun 2023	09 Jan 2023
Machine Hours	2877	2610	2070	1542
Oil Hours	0	1000	1000	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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 NORTH CHARLESTON, SC
 US 29418
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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.0	13.5	13.4
Base Number (BN)	mg KOH/g	9.9	10.2	10.6	10.7
Oxidation (PA)	%	76	85	88	83

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.3	0.3	0.2
Nitration (PA)	%	53	66	68	63
Sulfation (PA)	%	59	62	64	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	9	9	14
Sodium	ppm	2	2	3	<1
Potassium	ppm	5	15	7	12



WEAR METALS

Iron	ppm	8	12	15	12
Copper	ppm	<1	2	2	2
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	1	1	2
Aluminum	ppm	4	10	6	10
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	46	40	41	42
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1804	1694	1774	1755
Magnesium	ppm	564	544	517	516
Zinc	ppm	1177	1155	1103	1166
Phosphorus	ppm	1001	894	911	918
Barium	ppm	0	0	0	0
Boron	ppm	52	31	39	34

Depot: VOLVO3387
Unique No: 11074838
Signed: Sean Felton
Report Date: 14 Jun 2024

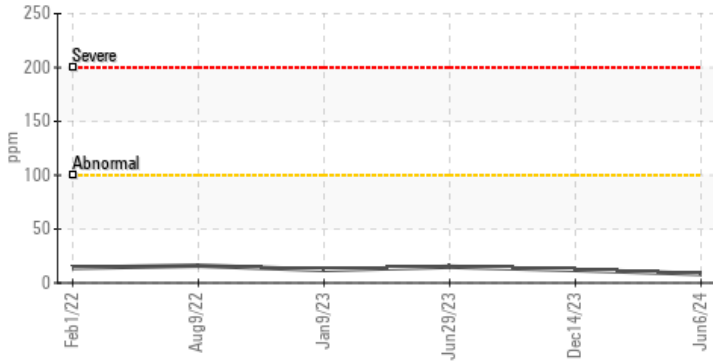


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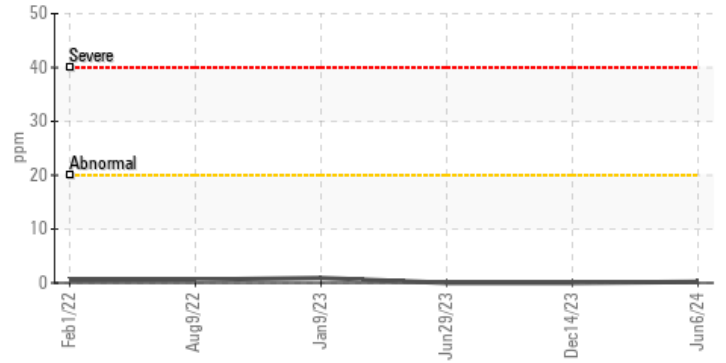


GRAPHS

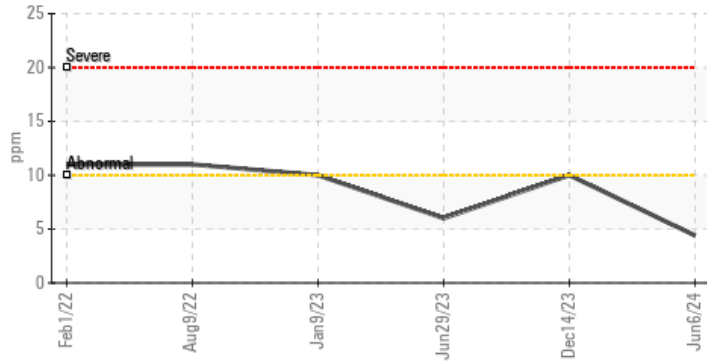
Iron (ppm)



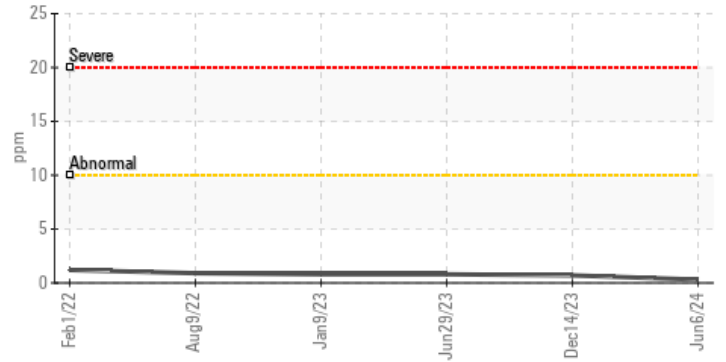
Lead (ppm)



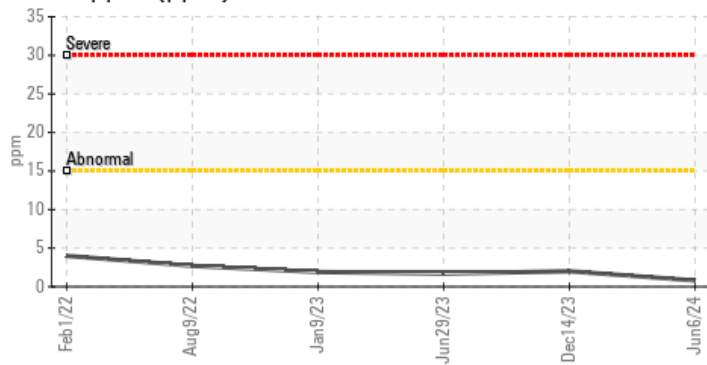
Aluminum (ppm)



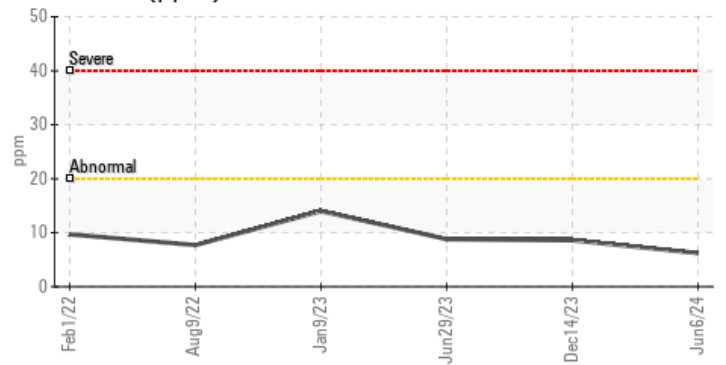
Chromium (ppm)



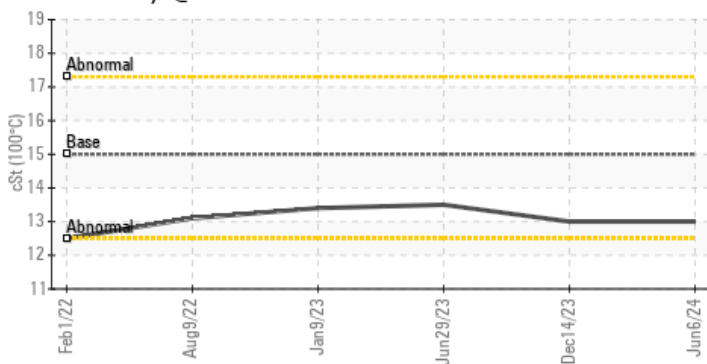
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

