



CONSTRUCTION EQUIPMENT

25805 VOLVO L90H 625946 - DIESEL ENGINE



Sample No: VCP447697
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25805



SAMPLE INFORMATION

Sample Number	VCP447697	VCP420537	VCP404621	VCP400701
Sample Date	06 Jun 2024	14 Dec 2023	29 Jun 2023	14 Feb 2023
Machine Hours	2528	1980	1482	948
Oil Hours	0	500	1000	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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 7235 CROSS COUNTRY RD.
 NORTH CHARLESTON, SC
 US 29418
 Contact: MATT MITCHAM
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.9	13.2	13.0
Base Number (BN)	mg KOH/g	9.7	10.3	10.6	6.8
Oxidation (PA)	%	80	82	82	68

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 %	%	0.3	0.3	0.3	0.1
Nitration (PA)	%	65	63	68	86
Sulfation (PA)	%	60	60	61	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	7	6	6
Sodium	ppm	2	1	3	3
Potassium	ppm	2	<1	0	0



WEAR METALS

Iron	ppm	15	14	20	17
Copper	ppm	<1	1	1	2
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	<1	1	1
Aluminum	ppm	6	7	8	6
Chromium	ppm	1	2	2	2
Molybdenum	ppm	49	40	42	45
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	2046	1676	1763	1647
Magnesium	ppm	584	544	529	543
Zinc	ppm	1305	1164	1112	1156
Phosphorus	ppm	1074	916	931	939
Barium	ppm	0	0	0	0
Boron	ppm	40	36	38	43

Depot: VOLVO3387
Unique No: 11074840
Signed: Sean Felton
Report Date: 14 Jun 2024

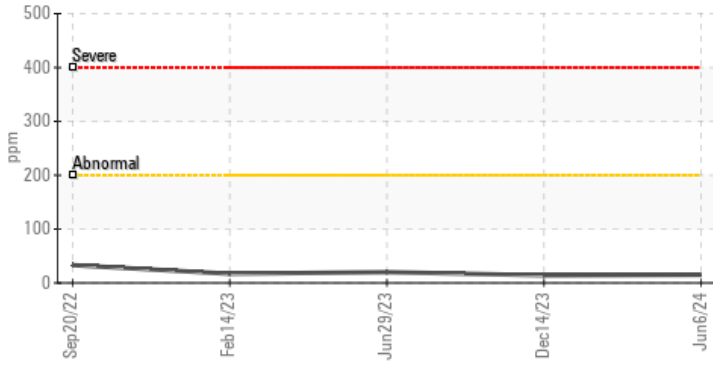


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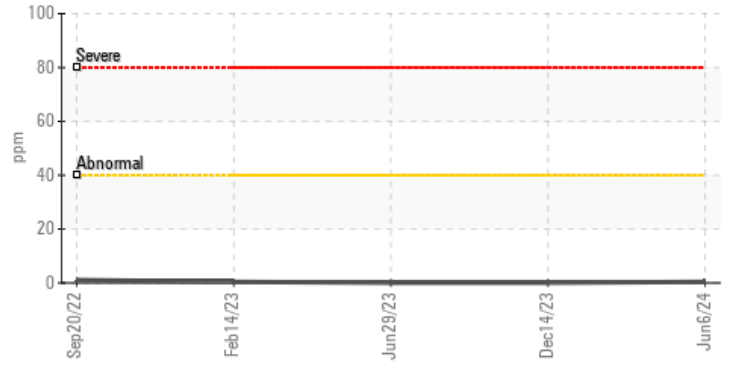


GRAPHS

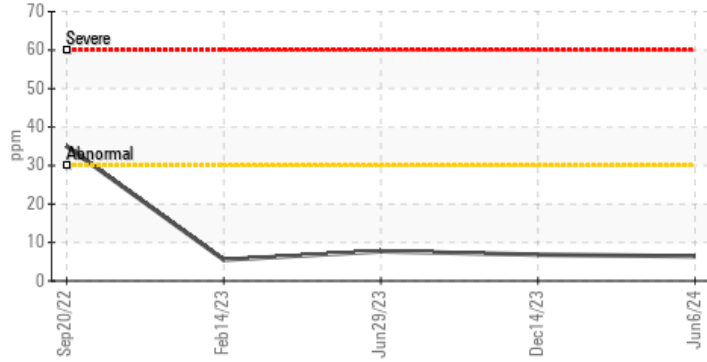
Iron (ppm)



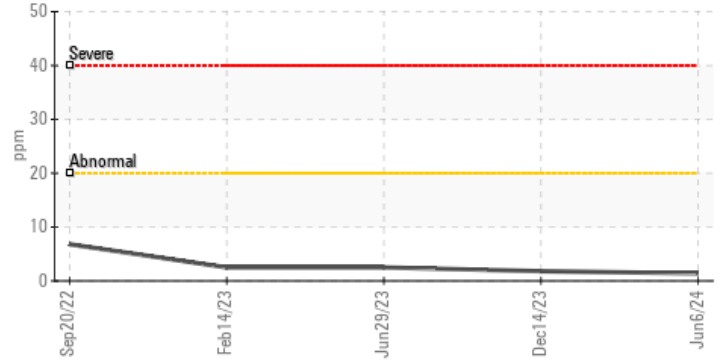
Lead (ppm)



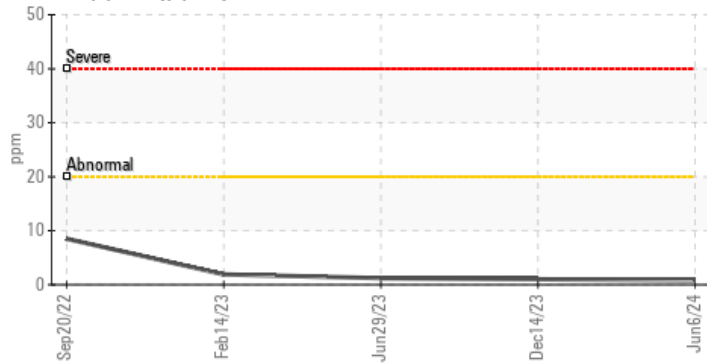
Aluminum (ppm)



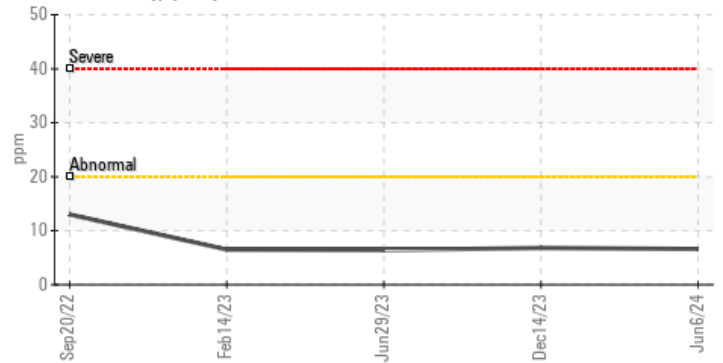
Chromium (ppm)



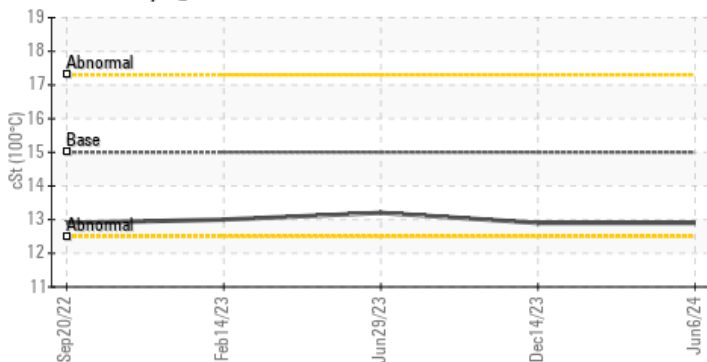
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

