



CONSTRUCTION EQUIPMENT

S50601265 IAA BAY PT VOLVO L90H 625920 - DIESEL ENGINE



Sample No: VCP403991
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S50601265 IAA BAY PT



SAMPLE INFORMATION

Sample Number	VCP403991	VCP340927	VCP369637	VCP345499
Sample Date	02 Nov 2023	19 Jul 2023	19 May 2023	02 Feb 2023
Machine Hours	3504	3010	2759	2243
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT

1944 MARINA BLVD
 SAN LEANDRO, CA
 US 94577

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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.1	13.3	13.3
Base Number (BN)	mg KOH/g	10.3	10.6	10.4	10.2
Oxidation (PA)	%	81	79	85	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

Soot %	%	0.2	0.1	0.3	0.3
Nitration (PA)	%	52	48	60	66
Sulfation (PA)	%	61	60	63	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	6	8
Sodium	ppm	2	3	1	3
Potassium	ppm	<1	<1	1	0



WEAR METALS

Iron	ppm	23	17	38	41
Copper	ppm	0	<1	<1	1
Lead	ppm	0	0	0	<1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	2	2	6	7
Chromium	ppm	<1	<1	1	2
Molybdenum	ppm	40	41	45	41
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1729	1780	1764	1767
Magnesium	ppm	556	538	513	512
Zinc	ppm	1235	1167	1193	1123
Phosphorus	ppm	983	972	974	903
Barium	ppm	0	<1	0	1
Boron	ppm	43	56	40	39

Depot: VOLVO4487
Unique No: 10727903
Signed: Wes Davis
Report Date: 07 Nov 2023

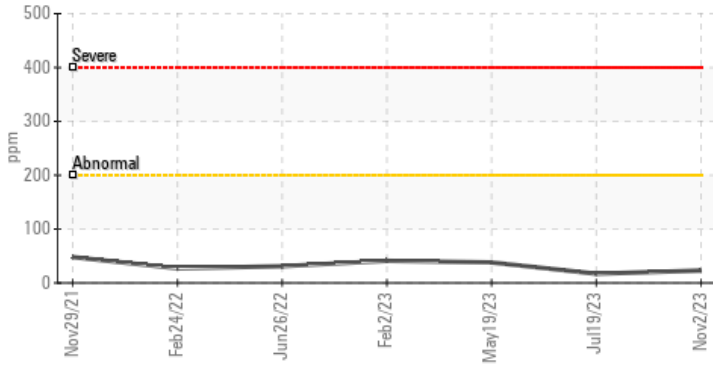


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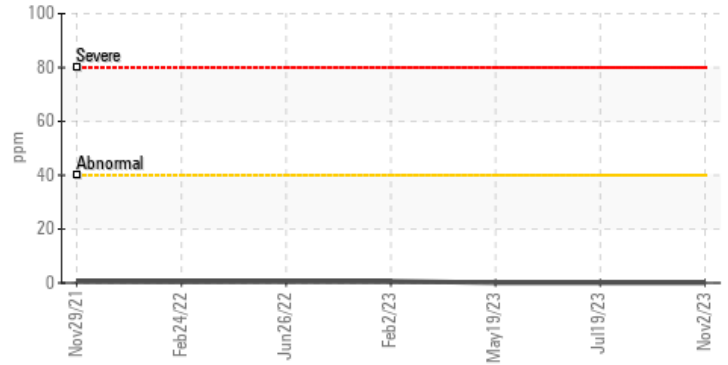


GRAPHS

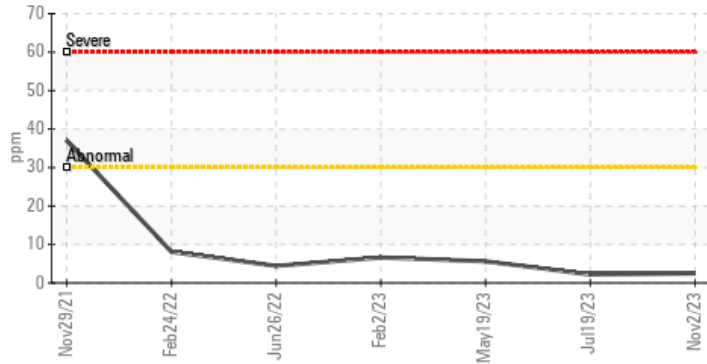
Iron (ppm)



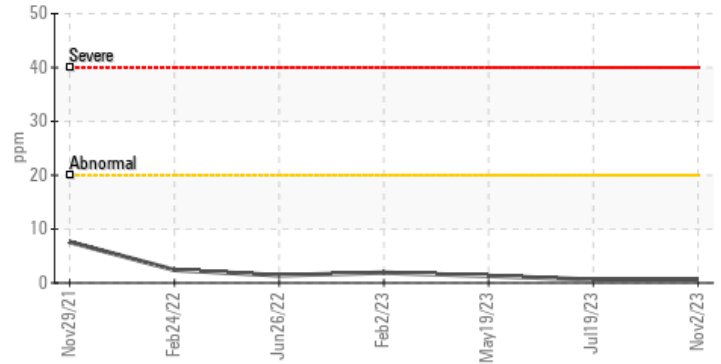
Lead (ppm)



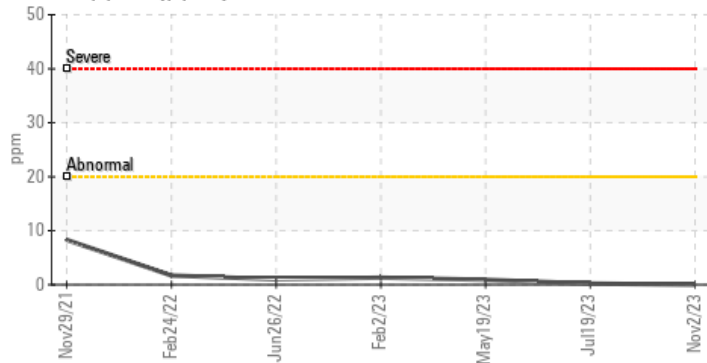
Aluminum (ppm)



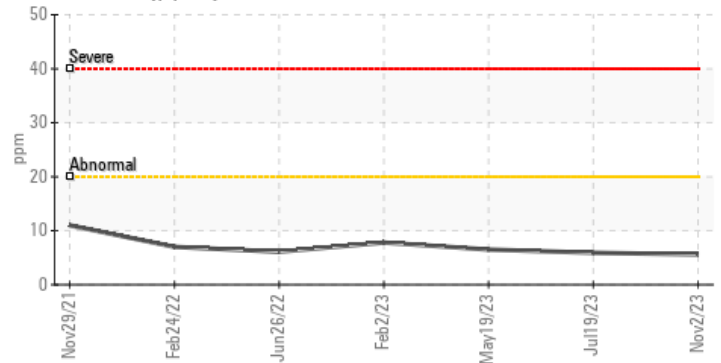
Chromium (ppm)



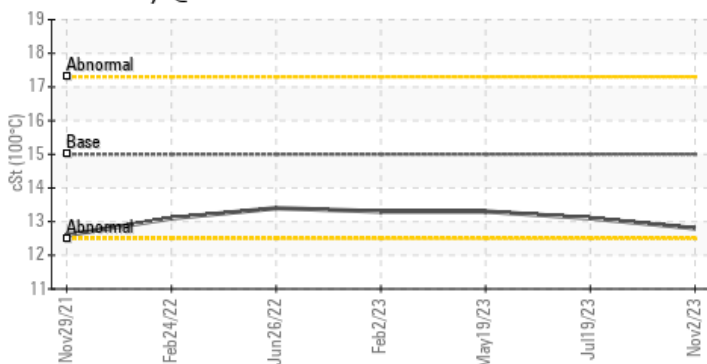
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

