



CONSTRUCTION EQUIPMENT

645512 IAA VOLVO L90H 623069 (S/N 617072) - DIESEL ENGINE



Sample No: VCP435396
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 645512 IAA



SAMPLE INFORMATION

Sample Number	VCP435396	VCP411165	VCP388728	VCP373280
Sample Date	08 Dec 2023	13 Apr 2023	01 Sep 2022	24 May 2022
Machine Hours	15837	14780	13640	13087
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.2	14.8	14.6	13.7
Base Number (BN)	mg KOH/g	9.1	8.8	11.6	10.4
Oxidation (PA)	%	63	63	65	76

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.9	1	1
Nitration (PA)	%	67	71	83	73
Sulfation (PA)	%	53	55	59	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	4	4
Sodium	ppm	<1	<1	2	2
Potassium	ppm	1	0	0	0



WEAR METALS

Iron	ppm	6	22	16	21
Copper	ppm	<1	0	<1	1
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	4	4	2	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	61	64	59	43
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1064	1114	1269	1494
Magnesium	ppm	966	914	994	467
Zinc	ppm	1316	1293	1380	1013
Phosphorus	ppm	1091	1040	1099	841
Barium	ppm	0	0	0	0
Boron	ppm	1	18	3	32

Depot: VOLVO2990
Unique No: 10794195
Signed: Don Baldrige
Report Date: 20 Dec 2023

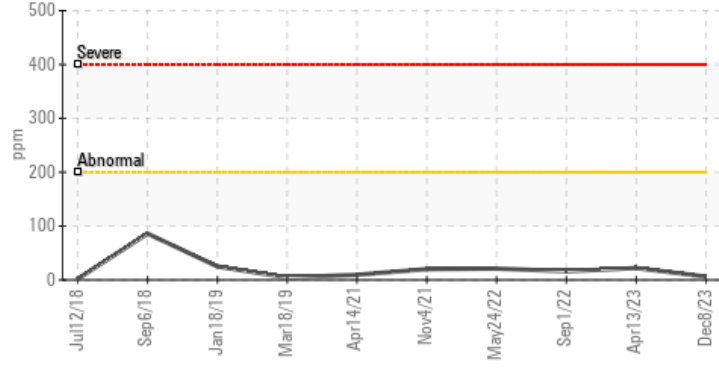


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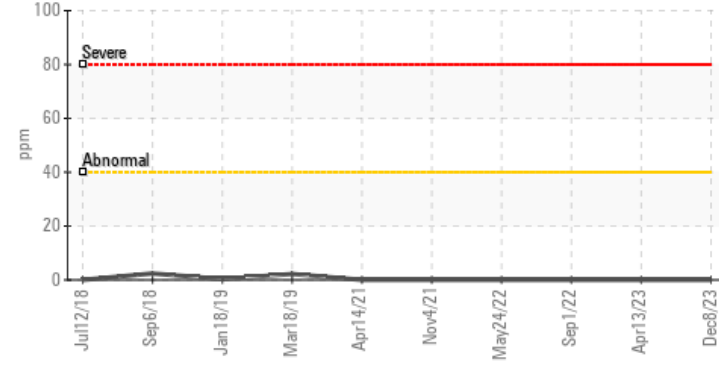


GRAPHS

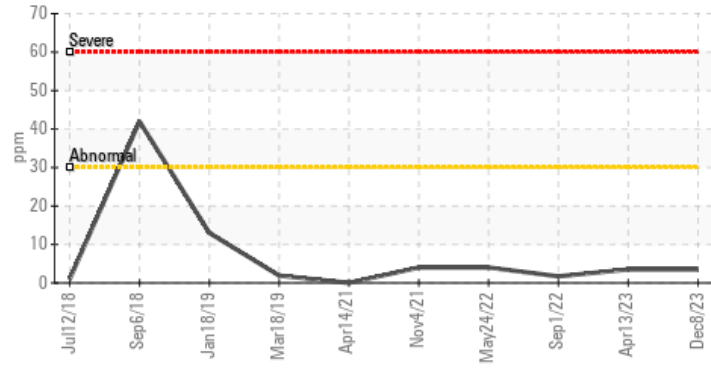
Iron (ppm)



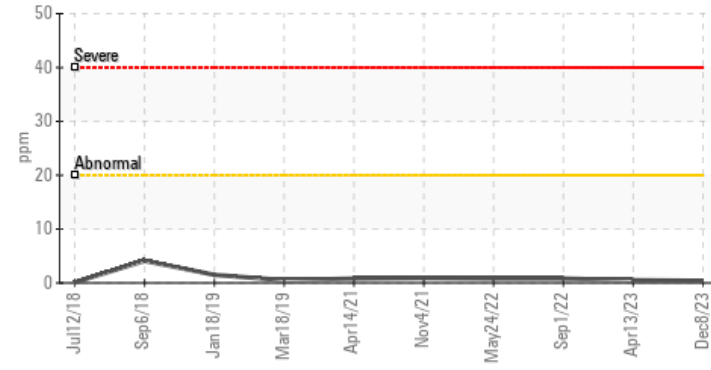
Lead (ppm)



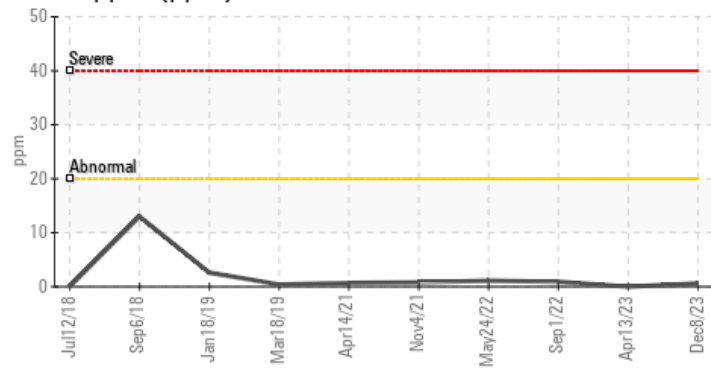
Aluminum (ppm)



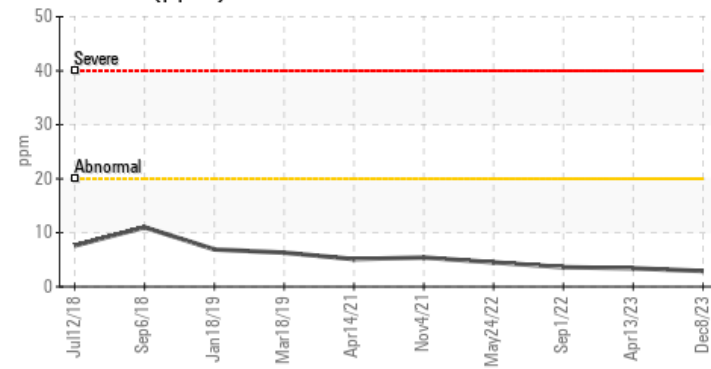
Chromium (ppm)



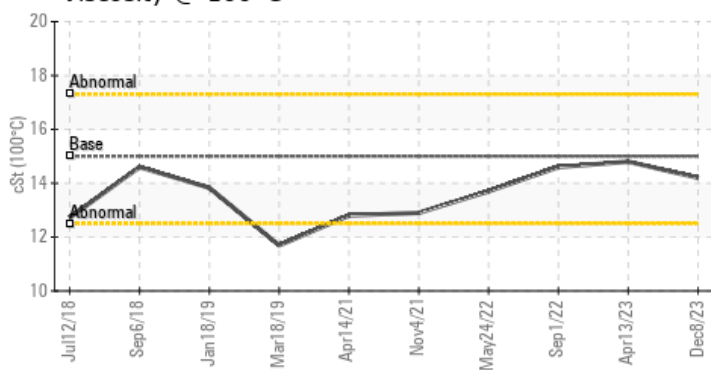
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

