



CONSTRUCTION EQUIPMENT

G08629 IAA SEWELL NJ VOLVO L90H 624997 - DIESEL ENGINE



Sample No: VCP437099
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: G08629 IAA SEWELL NJ



SAMPLE INFORMATION

Sample Number	VCP437099	VCP435252	VCP383564	VCP383567
Sample Date	11 Apr 2024	07 Dec 2023	19 Jan 2023	19 Jan 2023
Machine Hours	5118	4596	3760	3760
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.9	13.7	14.1
Base Number (BN)	mg KOH/g	7.2	8.1	9.0	7.7
Oxidation (PA)	%	49	55	48	54

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 %	%	0.7	0.6	0.1	0.7
Nitration (PA)	%	68	67	63	71
Sulfation (PA)	%	54	52	47	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	5	5
Sodium	ppm	<1	3	1	1
Potassium	ppm	2	1	2	2



WEAR METALS

Iron	ppm	15	9	6	23
Copper	ppm	1	1	0	1
Lead	ppm	<1	0	0	0
Tin	ppm	1	0	<1	<1
Aluminum	ppm	7	6	3	4
Chromium	ppm	1	<1	<1	1
Molybdenum	ppm	11	20	16	16
Nickel	ppm	<1	0	0	0
Titanium	ppm	17	35	7	7
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	2185	1810	2146	2193
Magnesium	ppm	231	472	194	192
Zinc	ppm	1117	1232	1096	1118
Phosphorus	ppm	927	1003	940	932
Barium	ppm	1	0	1	1
Boron	ppm	23	52	33	17

Depot: VOLVO8880
Unique No: 10979834
Signed: Wes Davis
Report Date: 17 Apr 2024

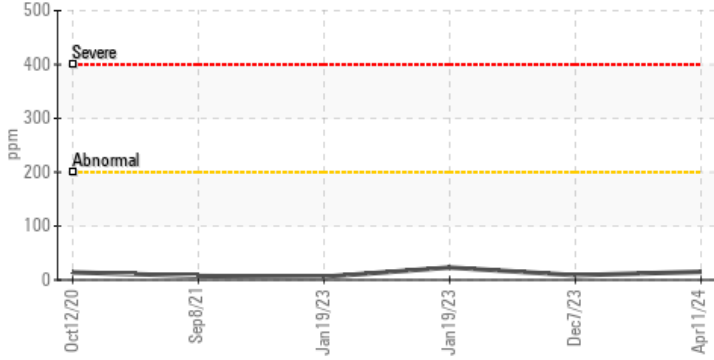


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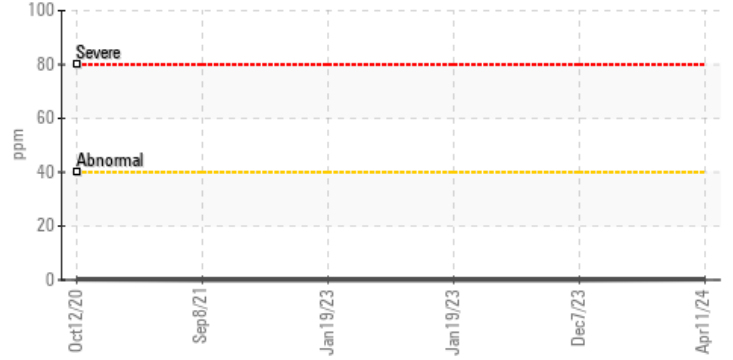


GRAPHS

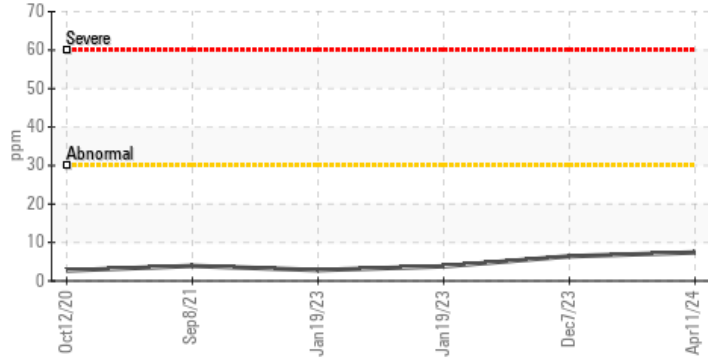
Iron (ppm)



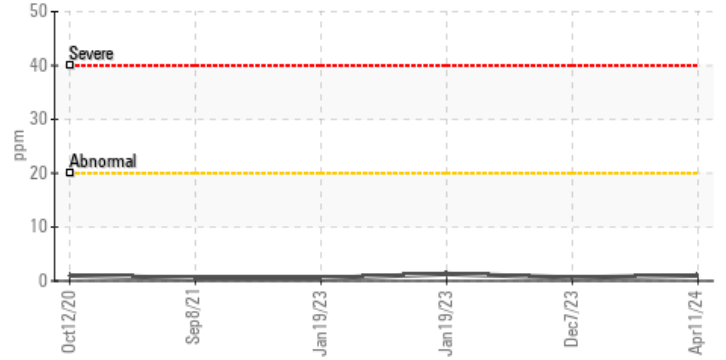
Lead (ppm)



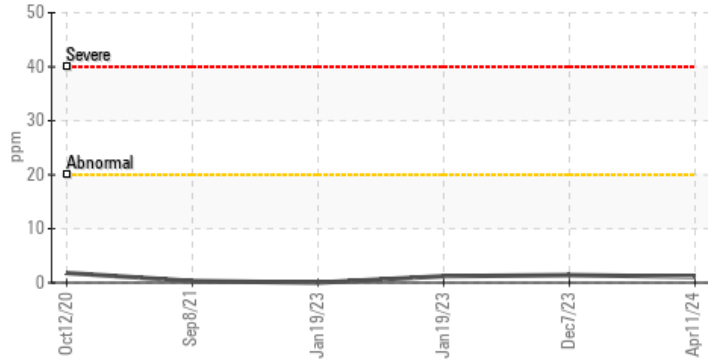
Aluminum (ppm)



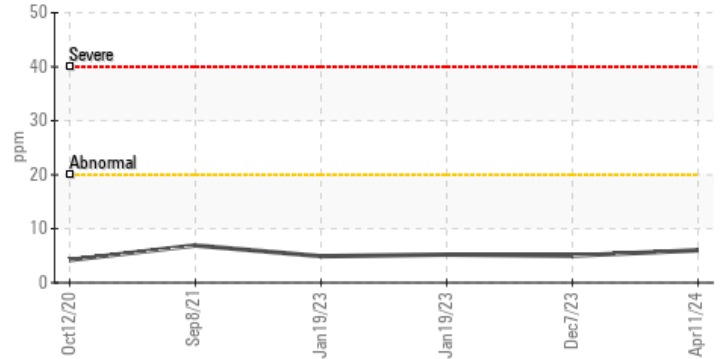
Chromium (ppm)



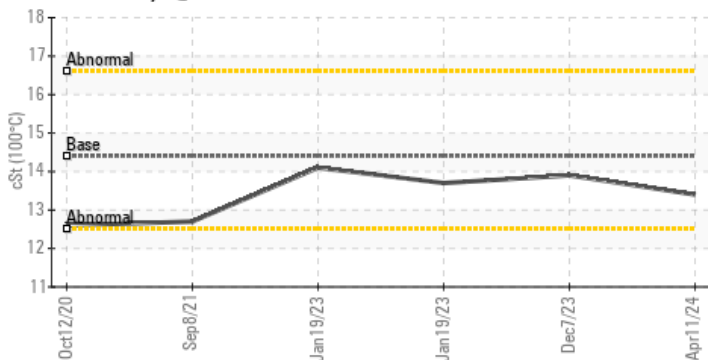
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

