



CONSTRUCTION EQUIPMENT

18 VOLVO L90H 25606 - DIESEL ENGINE



Sample No: VCP452148
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No: 18



SAMPLE INFORMATION

Sample Number	VCP452148	VCP313380	VCP406862	VCP324029
Sample Date	02 Feb 2024	04 Dec 2023	07 Jul 2023	01 May 2023
Machine Hours	14443	14005	12698	12012
Oil Hours	500	800	500	450
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

PLEASANT RIVER LUMBER
 PO BOX 68
 DOVER FOXCROFT, ME
 US 04426
 Contact: BURLEY HIGGINS
 burley@pleasantriverlumber.com
 T:
 F: (207)564-8259



OIL CONDITION

Visc @ 100°C	cSt	13.3	13.2	13.1	13.1
Base Number (BN)	mg KOH/g	8.9	8.5	9.1	9.5
Oxidation (PA)	%	60	65	59	61

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 %	%	0.2	0.3	0.3	0.2
Nitration (PA)	%	61	72	65	63
Sulfation (PA)	%	52	54	52	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	3	3
Sodium	ppm	<1	0	2	1
Potassium	ppm	0	0	<1	1



WEAR METALS

Iron	ppm	4	5	7	6
Copper	ppm	0	<1	<1	<1
Lead	ppm	0	<1	0	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	2	3	<1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	67	59	60	61
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1071	1187	1089	1122
Magnesium	ppm	974	1069	1003	979
Zinc	ppm	1278	1271	1301	1291
Phosphorus	ppm	1091	1183	1037	1028
Barium	ppm	0	0	0	0
Boron	ppm	5	0	2	3

Depot: PLEDOV
Unique No: 10873254
Signed: Don Baldrige
Report Date: 13 Feb 2024

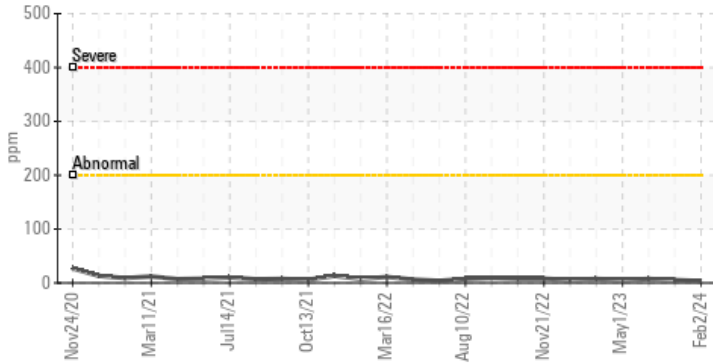


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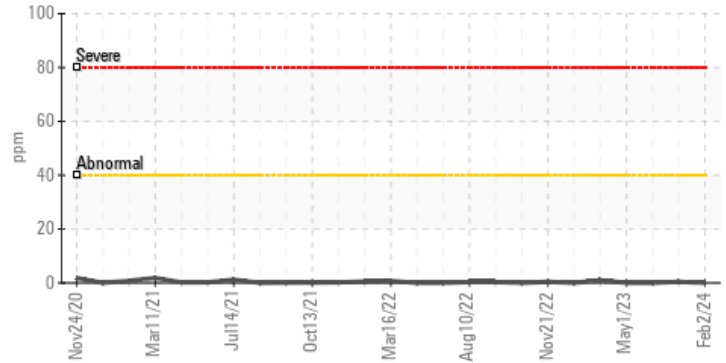


GRAPHS

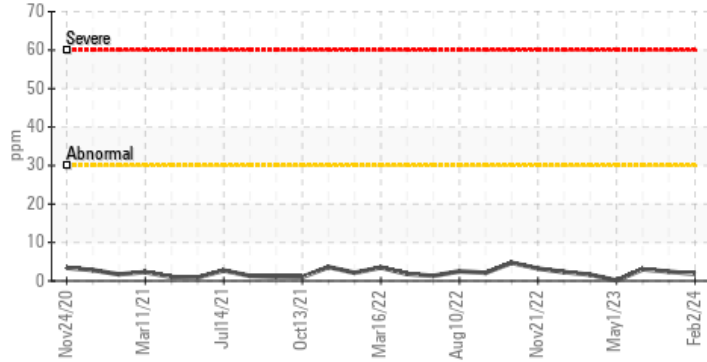
Iron (ppm)



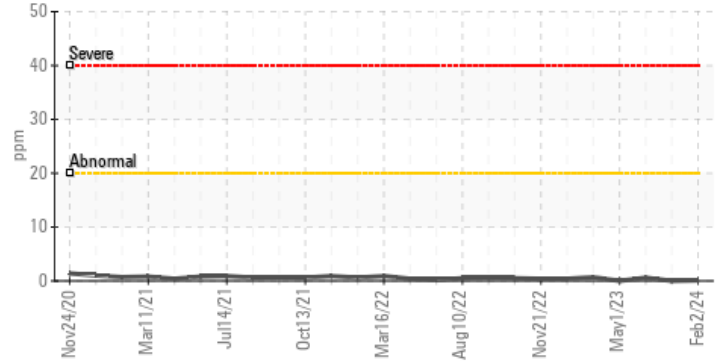
Lead (ppm)



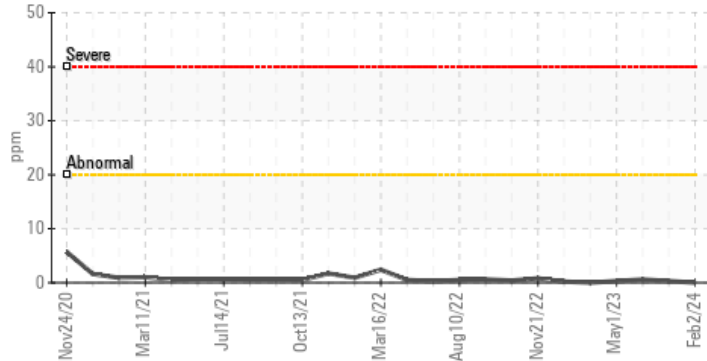
Aluminum (ppm)



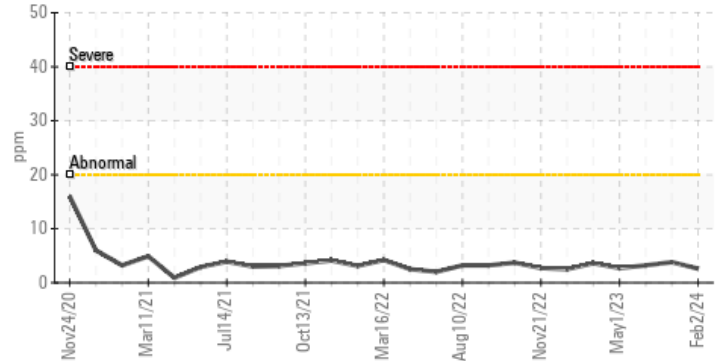
Chromium (ppm)



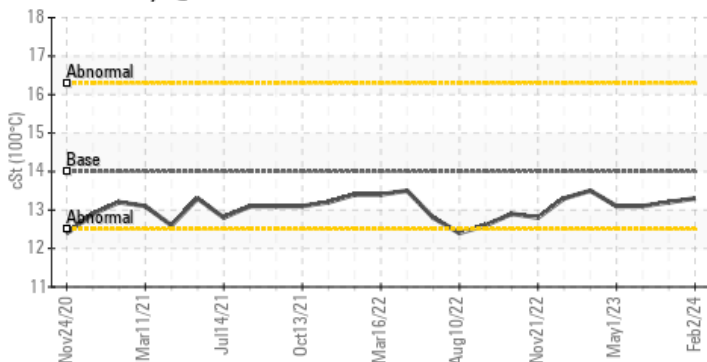
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

