



CONSTRUCTION EQUIPMENT

19 VOLVO L90H 25607 - DIESEL ENGINE



Sample No: VCP439930
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No: 19



SAMPLE INFORMATION

Sample Number	VCP439930	VCP439924	VCP430479	VCP313379
Sample Date	08 May 2024	29 Mar 2024	21 Feb 2024	13 Nov 2023
Machine Hours	14872	14434	13997	13017
Oil Hours	450	400	500	600
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

PLEASANT RIVER LUMBER

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 DOVER FOXCROFT, ME
 US 04426
 Contact: BURLEY HIGGINS
 burley@pleasantriverlumber.com
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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.3	13.5	13.6
Base Number (BN)	mg KOH/g	8.9	9.1	8.7	8.9
Oxidation (PA)	%	63	62	65	67



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.3	0.2	0.4
Nitration (PA)	%	73	71	72	75
Sulfation (PA)	%	53	52	53	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	3	4
Sodium	ppm	1	1	0	0
Potassium	ppm	<1	<1	1	<1



WEAR METALS

Iron	ppm	7	6	6	5
Copper	ppm	0	0	0	<1
Lead	ppm	0	0	0	1
Tin	ppm	0	0	0	0
Aluminum	ppm	2	1	1	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	70	69	76	61
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1212	1209	1263	1222
Magnesium	ppm	1063	1059	1148	1098
Zinc	ppm	1381	1369	1383	1321
Phosphorus	ppm	1115	1110	1125	1208
Barium	ppm	2	3	2	0
Boron	ppm	4	4	4	0

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.

Depot: PLEDOV
Unique No: 11112866
Signed: Jonathan Hester
Report Date: 09 Jul 2024

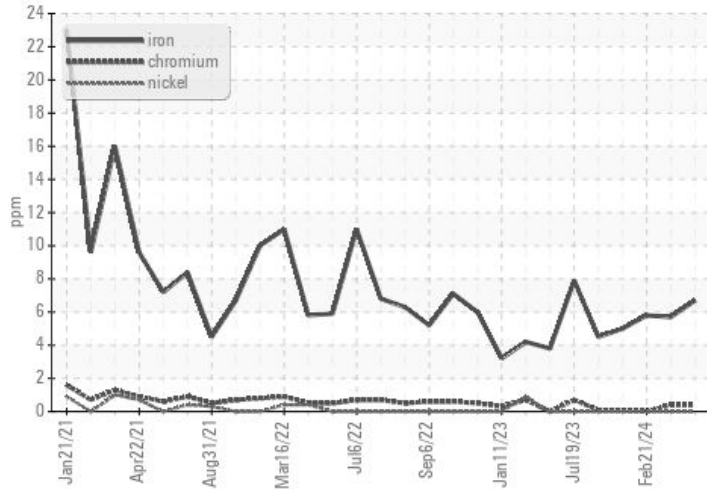


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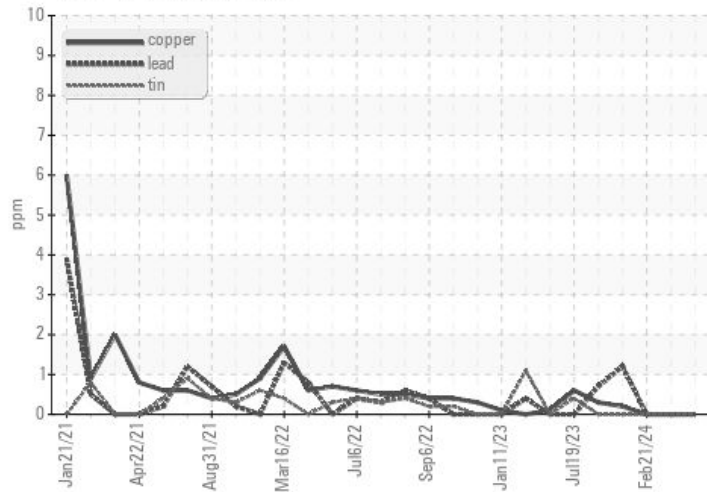


GRAPHS

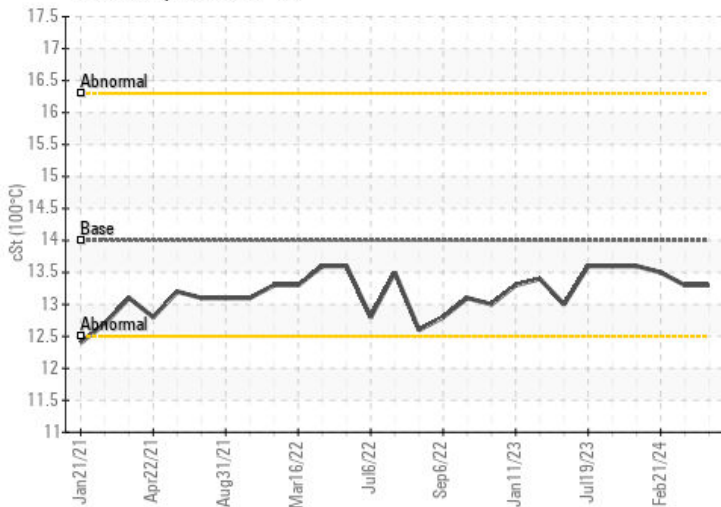
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

