



CONSTRUCTION EQUIPMENT

20 VOLVO L90H 25826 - DIESEL ENGINE



Sample No: VCP439928
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No: 20



SAMPLE INFORMATION

Sample Number	VCP439928	VCP430492	VCP452146	VCP406778
Sample Date	23 May 2024	21 Mar 2024	25 Jan 2024	01 Sep 2023
Machine Hours	8010	7566	7157	6073
Oil Hours	500	430	800	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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 DOVER FOXCROFT, ME
 US 04426
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 burley@pleasantriverlumber.com
 T:
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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.4	14.2	13.3
Base Number (BN)	mg KOH/g	9.3	9.0	7.1	9.2
Oxidation (PA)	%	62	64	87	65

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 %	%	0.3	0.3	0.6	0.3
Nitration (PA)	%	68	68	96	74
Sulfation (PA)	%	53	54	66	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	3	4	5
Sodium	ppm	1	0	2	2
Potassium	ppm	<1	1	0	2



WEAR METALS

Iron	ppm	7	9	23	11
Copper	ppm	0	0	1	1
Lead	ppm	0	0	<1	1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	2	4	2
Chromium	ppm	<1	0	<1	1
Molybdenum	ppm	69	71	69	75
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1202	1254	1172	1261
Magnesium	ppm	1060	1141	1047	1164
Zinc	ppm	1356	1372	1370	1486
Phosphorus	ppm	1100	1152	1118	1169
Barium	ppm	<1	0	0	12
Boron	ppm	4	4	1	<1

Depot: PLEDOV
Unique No: 11112871
Signed: Jonathan Hester
Report Date: 09 Jul 2024

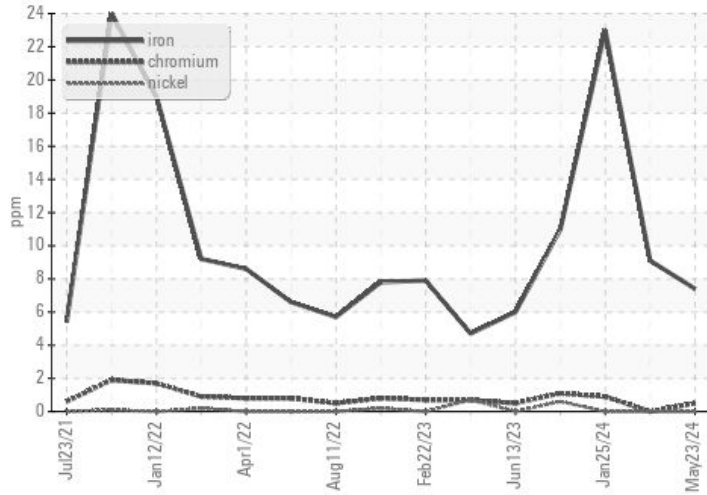


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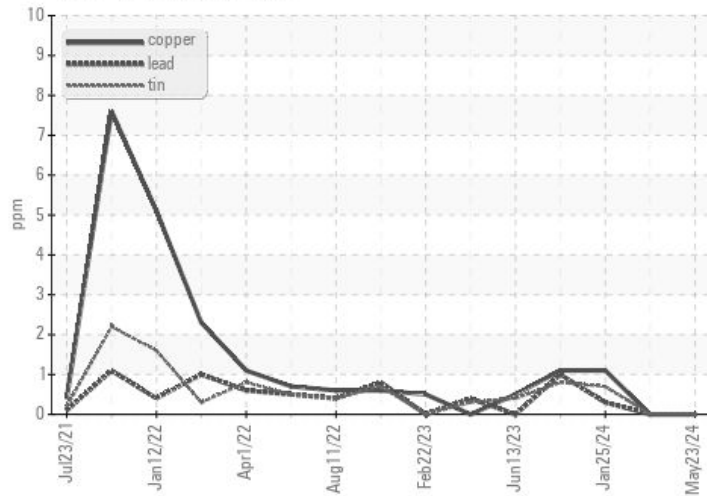


GRAPHS

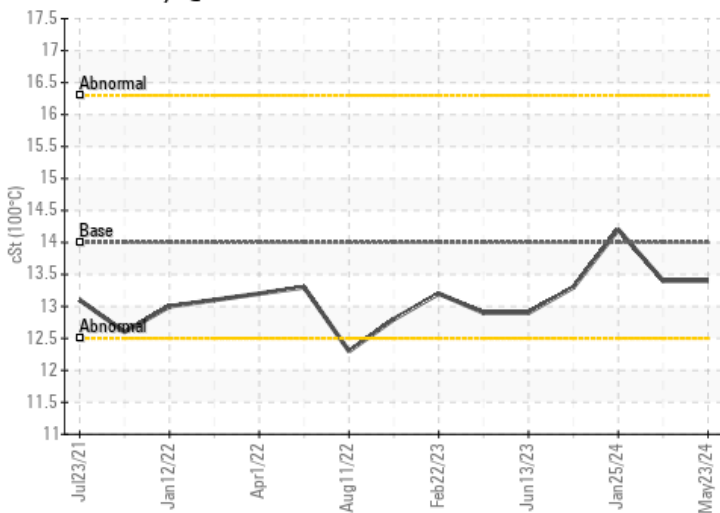
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

