



CONSTRUCTION EQUIPMENT

4870 IAA VOLVO L90H 623880 - DIESEL ENGINE



Sample No: VCP438982
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 4870 IAA



SAMPLE INFORMATION

Sample Number	VCP438982	VCP421058	VCP382994	VCP355233
Sample Date	04 Jan 2024	11 May 2023	01 Nov 2022	01 Jul 2022
Machine Hours	8022	7479	7005	6400
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
 9601 BOGGY CREEK RD
 ORLANDO, FL
 US 32824
 Contact: Robert LaPlante
 robert.laplante@altg.com
 T: (407)508-9736
 F: (407)659-8720



OIL CONDITION

Visc @ 100°C	cSt	13.0	13.4	13.2	13.3
Base Number (BN)	mg KOH/g	10.2	10.8	11.8	11.1
Oxidation (PA)	%	81	82	86	83

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	0.3	0.3	0.4
Nitration (PA)	%	63	62	68	63
Sulfation (PA)	%	60	61	64	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	5	6
Sodium	ppm	<1	3	2	2
Potassium	ppm	0	<1	0	0



WEAR METALS

Iron	ppm	2	7	7	8
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	7	7	8	10
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	43	44	43
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1631	1768	1717	1682
Magnesium	ppm	527	539	514	502
Zinc	ppm	1158	1149	1066	1041
Phosphorus	ppm	965	938	902	867
Barium	ppm	0	0	0	0
Boron	ppm	22	41	38	41

Depot: VOLVO0096
Unique No: 10830436
Signed: Wes Davis
Report Date: 12 Jan 2024

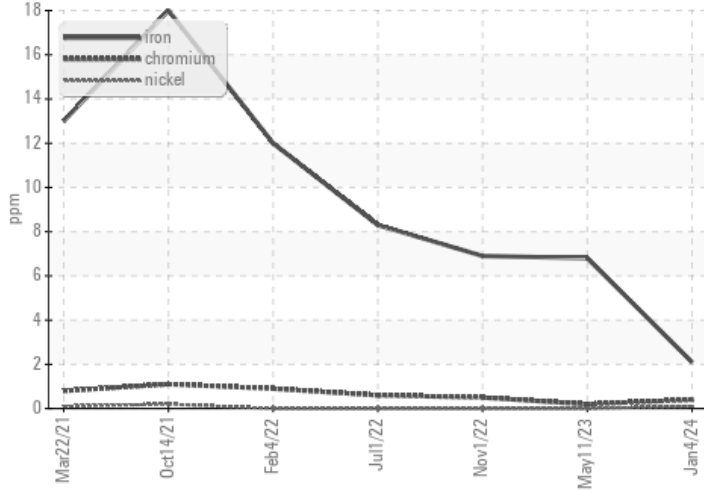


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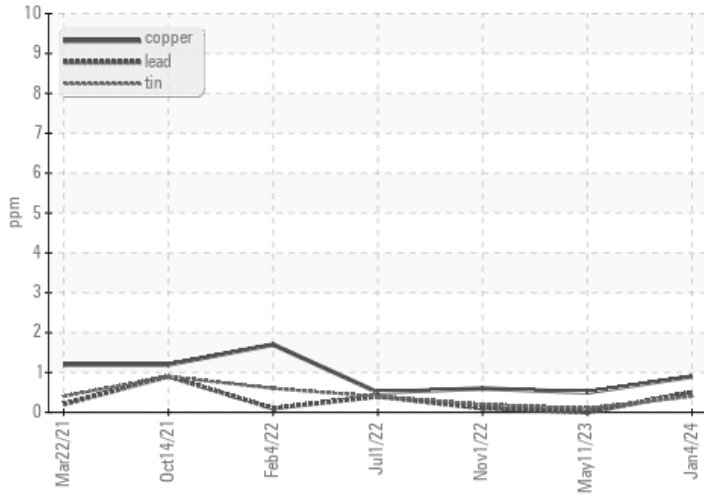


GRAPHS

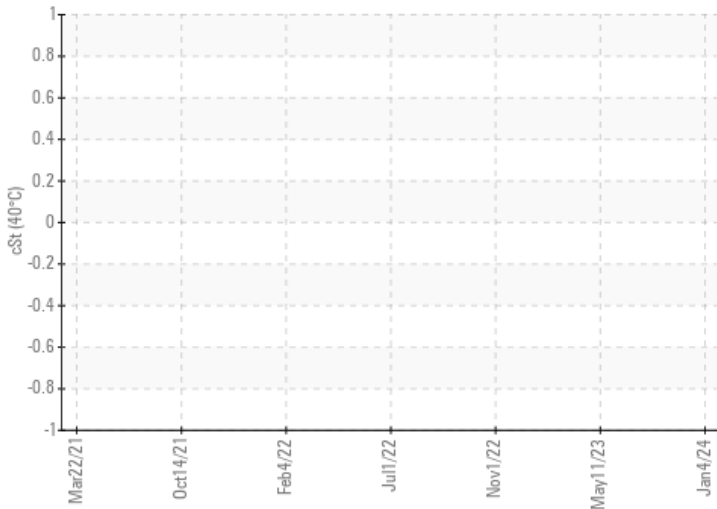
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Base Number

