



CONSTRUCTION EQUIPMENT

VOLVO L150H 6937 - DIESEL ENGINE



Sample No: VCP432364
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP432364	VCP432660	VCP411670	VCP405341
Sample Date	20 Dec 2023	29 Aug 2023	26 May 2023	21 Mar 2023
Machine Hours	6648	6060	5504	4909
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.3	12.4	12.2
Base Number (BN)	mg KOH/g	9.8	10.3	9.3	8.3
Oxidation (PA)	%	77	82	81	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 suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	57	55	58	60
Sulfation (PA)	%	58	60	61	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.6
Silicon	ppm	6	4	9	15
Sodium	ppm	0	2	<1	2
Potassium	ppm	2	0	<1	1



WEAR METALS

Iron	ppm	2	2	5	8
Copper	ppm	19	<1	1	3
Lead	ppm	0	0	0	<1
Tin	ppm	2	<1	0	<1
Aluminum	ppm	2	0	0	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	45	34	43	54
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1507	1472	1620	1005
Magnesium	ppm	638	423	557	880
Zinc	ppm	1250	955	1130	1149
Phosphorus	ppm	1027	782	930	974
Barium	ppm	0	2	0	2
Boron	ppm	39	39	35	3

Depot: VOLVO0093
Unique No: 10807429
Signed: Don Baldrige
Report Date: 29 Dec 2023

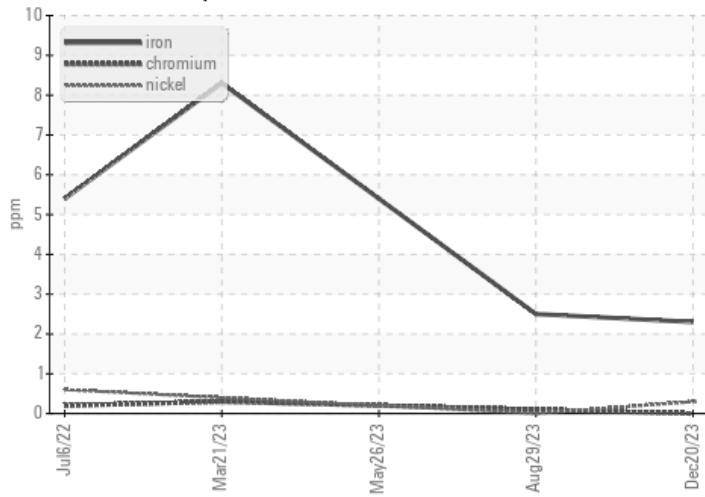


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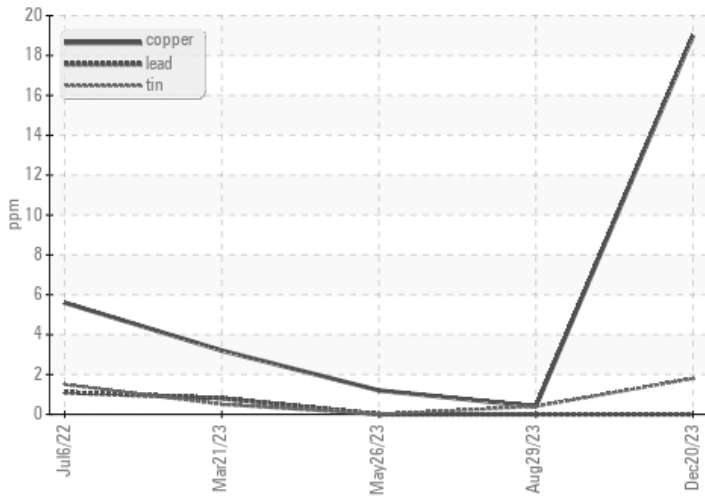


GRAPHS

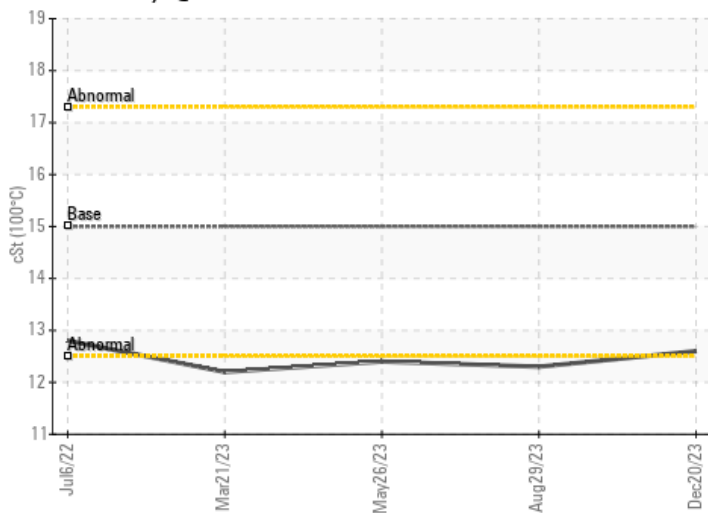
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

