



CONSTRUCTION EQUIPMENT

VOLVO L60H 622810 - DIESEL ENGINE



Sample No: VCP424241
Oil Type: MOBIL DELVAC 1 5W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP424241	VCP424240	VCP365002	VCP365001
Sample Date	10 Dec 2023	17 Sep 2023	17 Jun 2023	11 Jun 2023
Machine Hours	3550	3058	2500	2500
Oil Hours	500	500	600	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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 2270 N DOBLER RD
 STERLING, MI
 US 48659
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 mapleridge.shop@aol.com
 T: (989)873-8185
 F:

OIL CONDITION

Visc @ 100°C	cSt	14.4	14.2	14.1	13.5
Base Number (BN)	mg KOH/g	6.0	6.0	5.5	6.2
Oxidation (PA)	%	182	183	184	186

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 %	%	1.3	1.2	1.2	0.3
Nitration (PA)	%	93	92	93	83
Sulfation (PA)	%	110	109	109	109
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	7	5
Sodium	ppm	0	1	<1	<1
Potassium	ppm	2	<1	1	2

WEAR METALS

Iron	ppm	42	45	52	15
Copper	ppm	3	3	4	1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	1	2
Aluminum	ppm	6	2	7	6
Chromium	ppm	2	2	2	1
Molybdenum	ppm	50	47	66	45
Nickel	ppm	1	1	<1	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	1041	1074	1379	1020
Magnesium	ppm	948	960	1272	909
Zinc	ppm	1333	1351	1777	1343
Phosphorus	ppm	1086	1110	1453	1058
Barium	ppm	12	0	0	0
Boron	ppm	69	56	99	71

Depot: MAPSTE
Unique No: 10791732
Signed: Sean Felton
Report Date: 19 Dec 2023

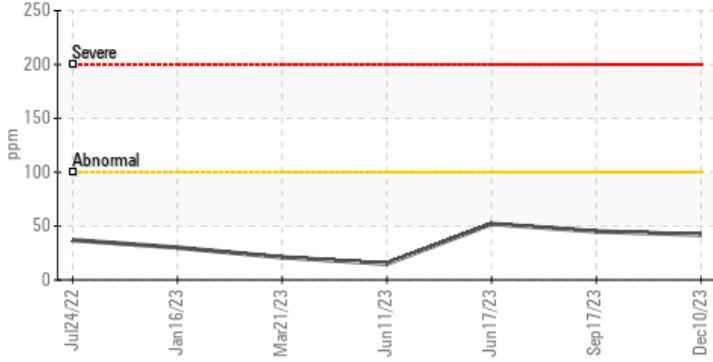


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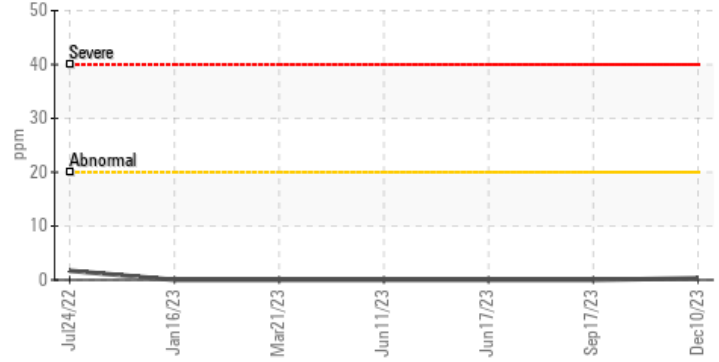


GRAPHS

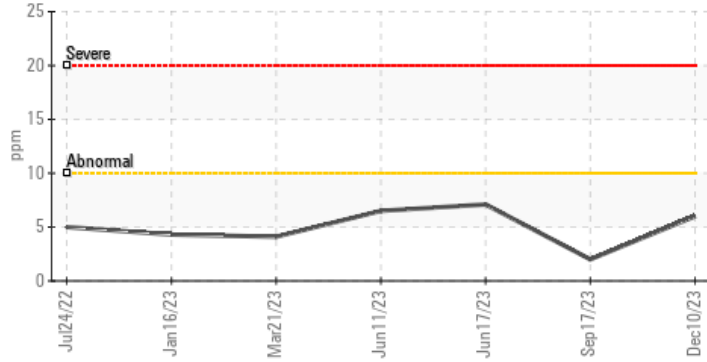
Iron (ppm)



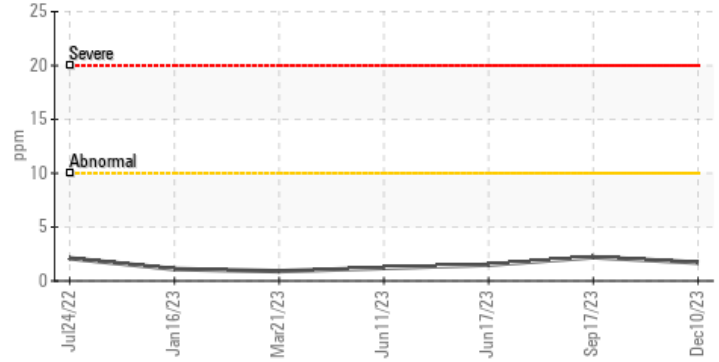
Lead (ppm)



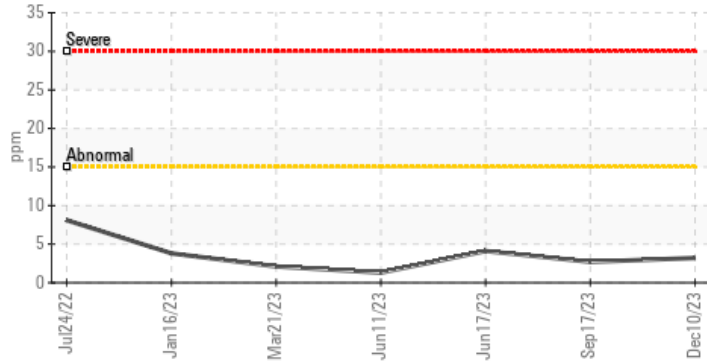
Aluminum (ppm)



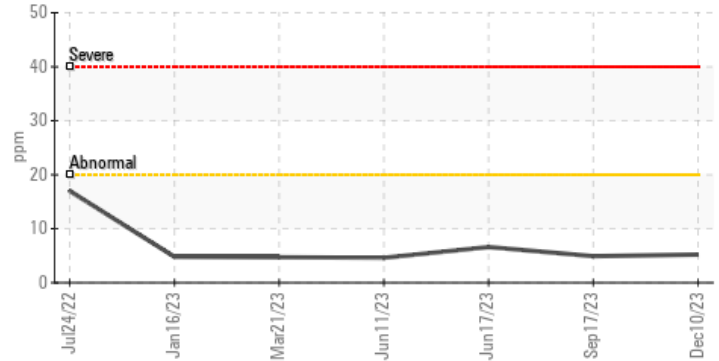
Chromium (ppm)



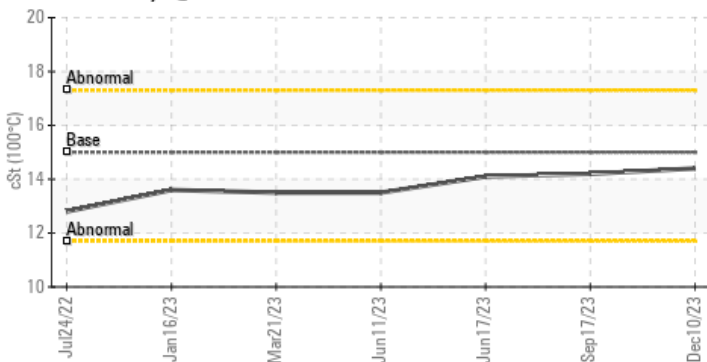
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

