



CONSTRUCTION EQUIPMENT

9870 VOLVO L220H 2855 - DIESEL ENGINE



Sample No: VCP426365
Oil Type: CHEVRON 15W40
Job No: 9870



SAMPLE INFORMATION

Sample Number	VCP426365	VCP417951	VCP413781	VCP423116
Sample Date	03 Nov 2023	06 Oct 2023	01 Sep 2023	26 Jul 2023
Machine Hours	15491	15141	14577	14058
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

WHEELABRATOR
 1801 ANNAPOLIS RD
 BALTIMORE, MD
 US 21230
 Contact: SERVICE MANAGER

OIL CONDITION

Visc @ 100°C	cSt	13.3	13.3	13.2	13.2
Base Number (BN)	mg KOH/g	7.4	6.6	6.6	6.7
Oxidation (PA)	%	61	59	60	65

T: (215)428-7902
 F:

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

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	50	53	54	62
Sulfation (PA)	%	58	58	58	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	14	16	14
Sodium	ppm	1	1	1	0
Potassium	ppm	2	<1	0	2

WEAR METALS

Iron	ppm	1	<1	2	4
Copper	ppm	<1	<1	<1	1
Lead	ppm	<1	0	0	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	3	2	2	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	78	82	86	104
Nickel	ppm	0	0	0	<1
Titanium	ppm	2	1	1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	1388	1303	1491	1548
Magnesium	ppm	407	392	405	431
Zinc	ppm	1126	1223	1268	1295
Phosphorus	ppm	1038	1013	1031	1108
Barium	ppm	0	0	0	2
Boron	ppm	438	304	350	347

Depot: WHEBAL
Unique No: 10729745
Signed: Wes Davis
Report Date: 09 Nov 2023

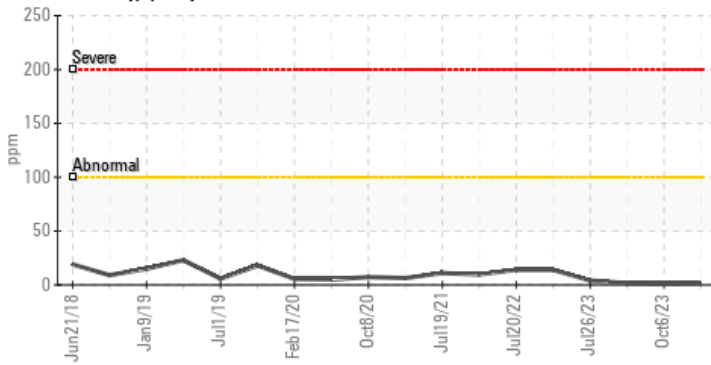


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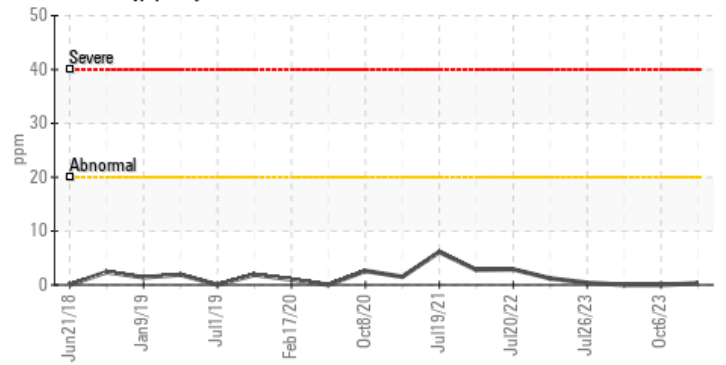


GRAPHS

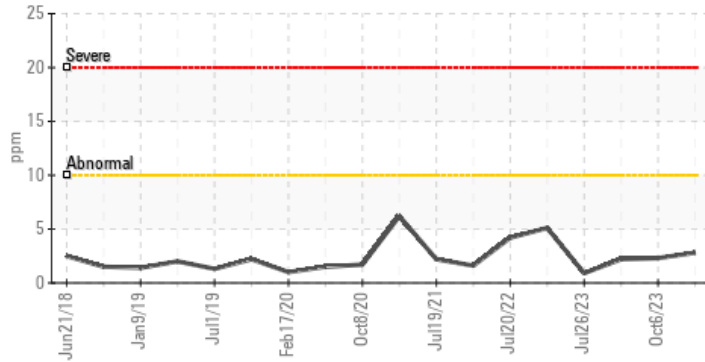
Iron (ppm)



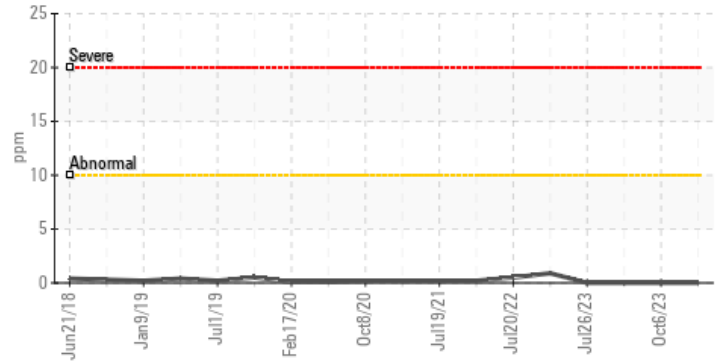
Lead (ppm)



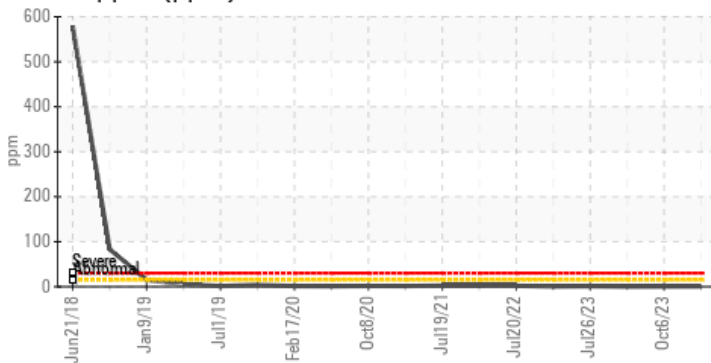
Aluminum (ppm)



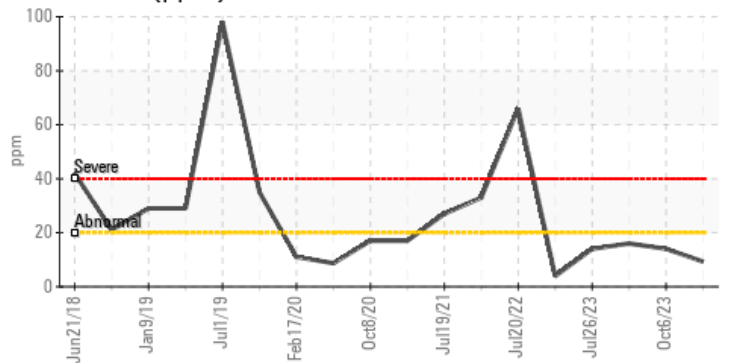
Chromium (ppm)



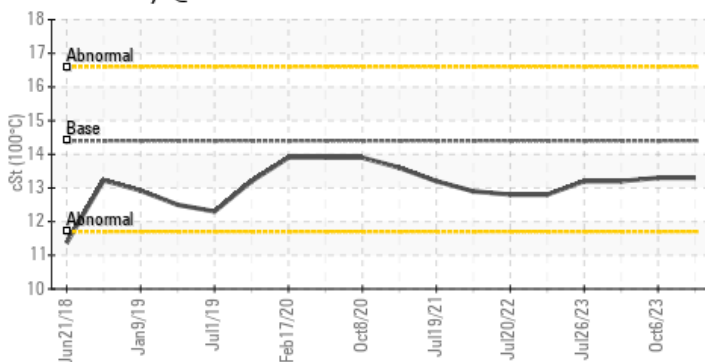
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

