



CONSTRUCTION EQUIPMENT

SPM620857 WM HODGKIN VOLVO EC250EL 310691 - DIESEL ENGINE



Sample No: VCP398392
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM620857 WM HODGKIN



SAMPLE INFORMATION

Sample Number	VCP398392	VCP415101	VCP422602	VCP423397
Sample Date	18 Oct 2023	18 Aug 2023	16 Jun 2023	01 Jun 2023
Machine Hours	13126	14626	15556	12246
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.0	13.9	13.3	13.6
Base Number (BN)	mg KOH/g	8.3	8.3	8.7	7.6
Oxidation (PA)	%	72	73	77	78

CONTAMINATION

Soot %	%	0.2	0.1	0.3	0.2
Nitration (PA)	%	64	55	64	57
Sulfation (PA)	%	57	54	61	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	30	15	13	17
Sodium	ppm	1	2	<1	3
Potassium	ppm	2	<1	2	3

WEAR METALS

Iron	ppm	12	9	6	12
Copper	ppm	2	1	1	<1
Lead	ppm	1	0	<1	1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	4	1	2	4
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	59	60	59	57
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1039	1084	1019	990
Magnesium	ppm	934	1016	985	941
Zinc	ppm	1252	1320	1299	1251
Phosphorus	ppm	983	1053	1029	996
Barium	ppm	7	0	0	0
Boron	ppm	0	0	0	<1

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor. Note that there appears to be a discrepancy in the total time on this component, when compared to the historical data. All component wear rates are normal. Elemental level of silicon (Si) above normal. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO8885
Unique No: 10737820
Signed: Don Baldrige
Report Date: 14 Nov 2023

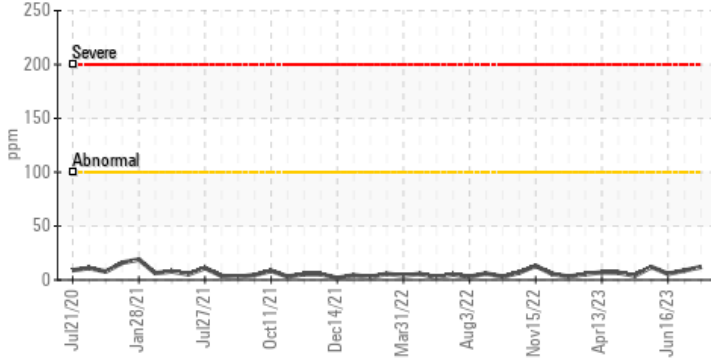


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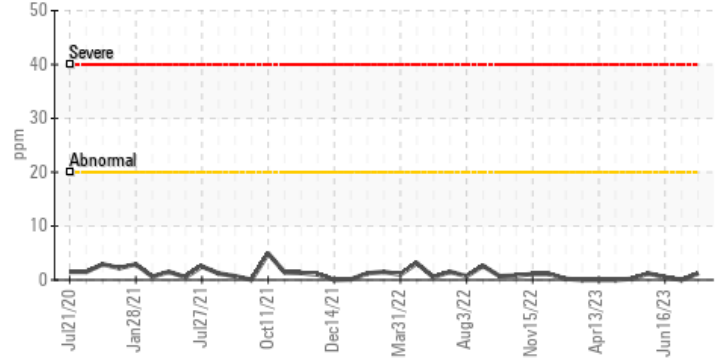


GRAPHS

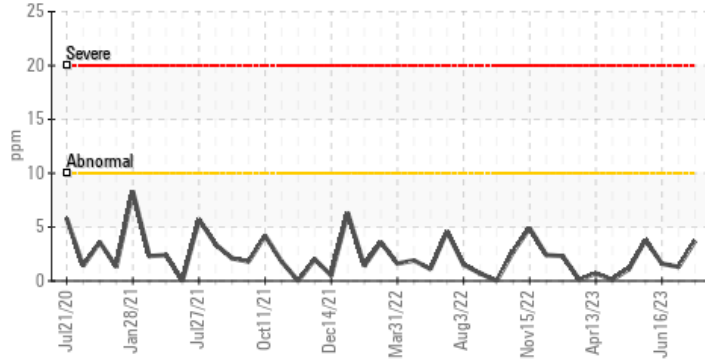
Iron (ppm)



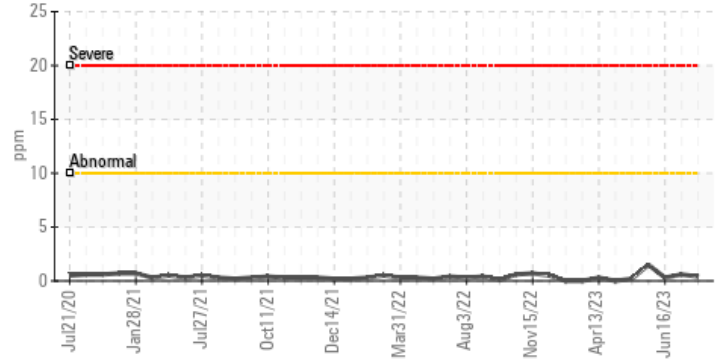
Lead (ppm)



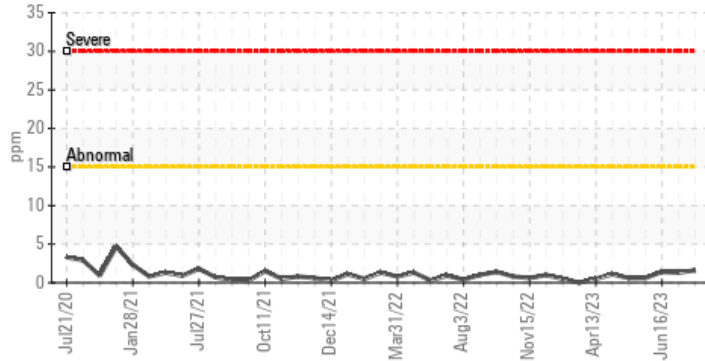
Aluminum (ppm)



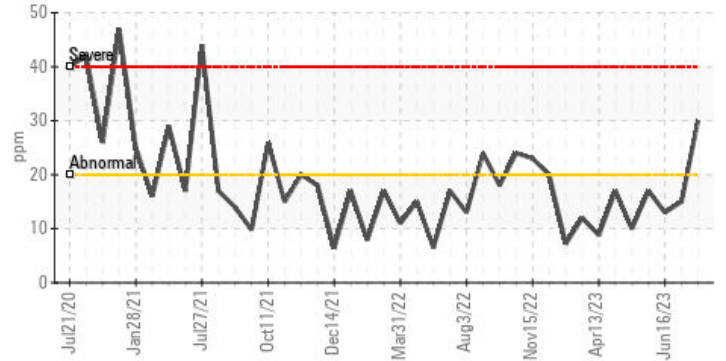
Chromium (ppm)



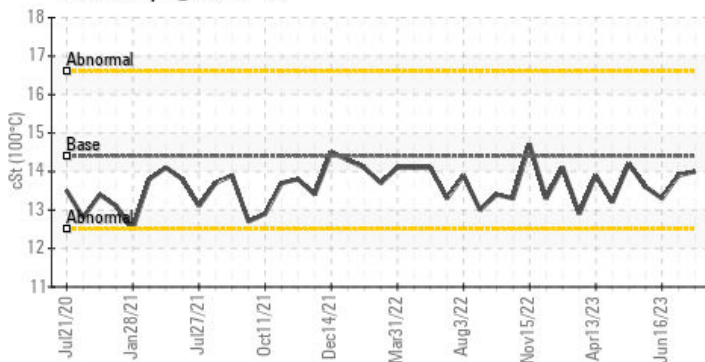
Copper (ppm)



▲ Silicon (ppm)



Viscosity @ 100°C



Base Number

