



CONSTRUCTION EQUIPMENT

660590 MOSAI FERT VOLVO L260H 1258 - DIESEL ENGINE



Sample No: VCP454418
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 660590 MOSAI FERT



SAMPLE INFORMATION

Sample Number	VCP454418	VCP430780	VCP422670	VCP402998
Sample Date	19 Jan 2024	19 Oct 2023	27 Jun 2023	17 Feb 2023
Machine Hours	4327	3922	3304	2683
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	MARGINAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	▲ 12.2	■ 12.5	▲ 12.4
Base Number (BN)	mg KOH/g	■ 10.0	■ 9.5	■ 9.0	■ 9.7
Oxidation (PA)	%	77	80	82	82

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	57	65	70	63
Sulfation (PA)	%	58	59	59	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	■ 0.7	<1.0	■ 0.9
Silicon	ppm	■ 6	■ 6	■ 11	■ 6
Sodium	ppm	■ 1	■ 2	■ 3	■ 2
Potassium	ppm	■ <1	■ 0	■ 3	■ 0



WEAR METALS

Iron	ppm	■ 4	■ 6	■ 12	■ 6
Copper	ppm	■ <1	■ 2	■ 6	■ 2
Lead	ppm	■ 0	■ <1	■ 0	■ <1
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 1	■ <1	■ 3	■ 1
Chromium	ppm	■ 0	■ 0	■ 0	■ <1
Molybdenum	ppm	■ 35	■ 45	■ 50	■ 38
Nickel	ppm	■ <1	■ <1	■ <1	■ 0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	■ 0	■ 0	■ 0	■ <1
Manganese	ppm	■ 0	■ <1	■ <1	■ 1
Vanadium	ppm	<1	0	<1	<1



ADDITIVES

Calcium	ppm	■ 1807	■ 1653	■ 1765	■ 1594
Magnesium	ppm	■ 508	■ 526	■ 526	■ 484
Zinc	ppm	■ 1159	■ 1157	■ 1114	■ 1016
Phosphorus	ppm	■ 983	■ 966	■ 953	■ 847
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 43	■ 28	■ 33	■ 31

Depot: VOLVO0093
Unique No: 10886305
Signed: Sean Felton
Report Date: 21 Feb 2024

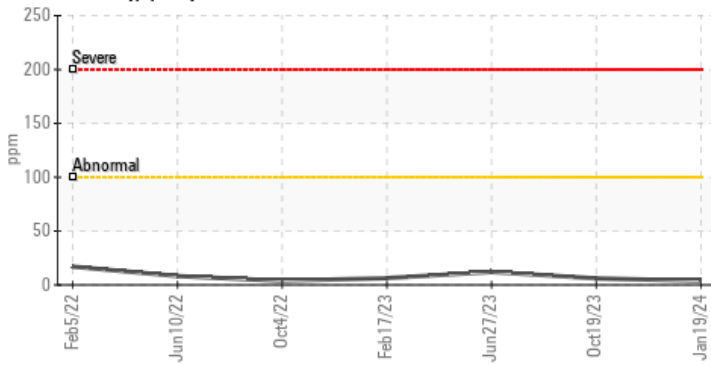


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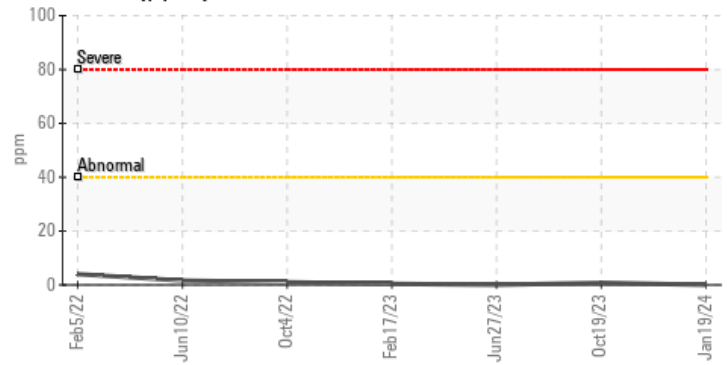


GRAPHS

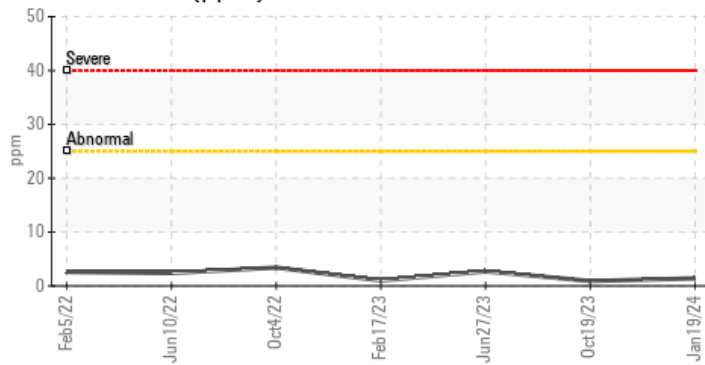
Iron (ppm)



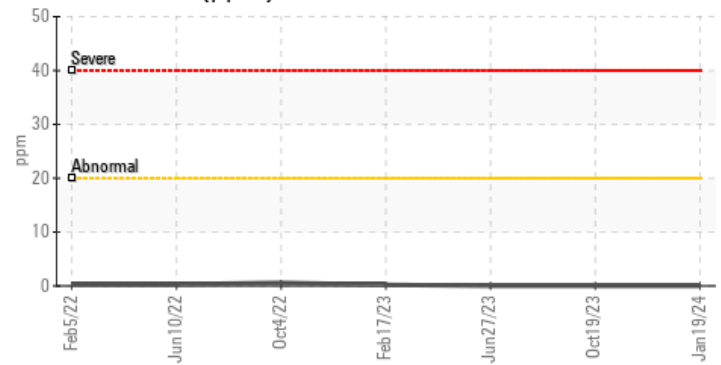
Lead (ppm)



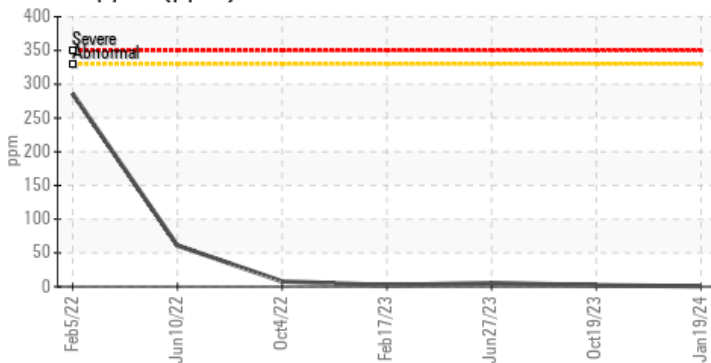
Aluminum (ppm)



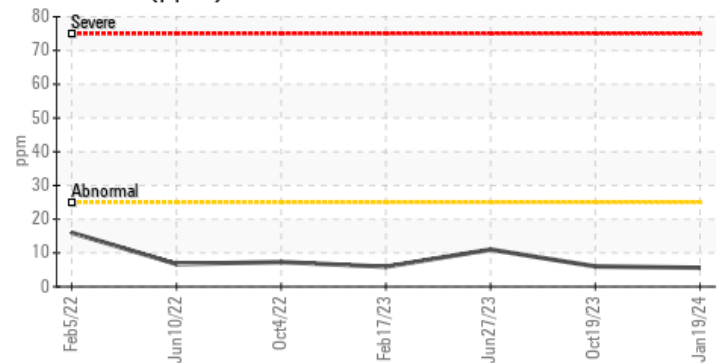
Chromium (ppm)



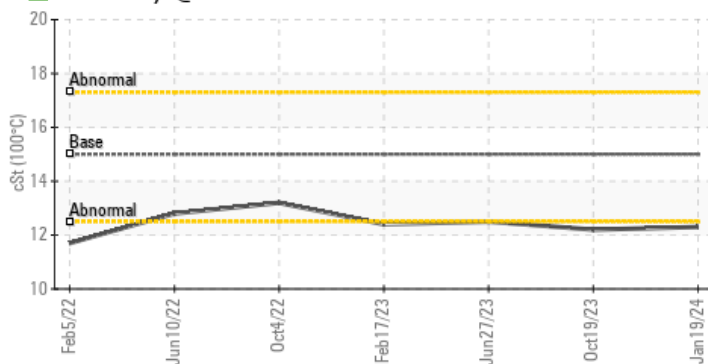
Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

