



CONSTRUCTION EQUIPMENT

391128 VOLVO L120H 632080 - DIESEL ENGINE



Sample No: VCP392873
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 391128



SAMPLE INFORMATION

Sample Number	VCP392873	VCP394346	VCP394288	VCP394699
Sample Date	18 Jan 2024	03 Nov 2023	29 Sep 2023	18 Aug 2023
Machine Hours	33132	32397	31736	31284
Oil Hours	500	0	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.2	13.1	13.3
Oxidation (PA)	%	87	84	81	82



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.2	0.1	0.1
Nitration (PA)	%	67	58	54	57
Sulfation (PA)	%	65	64	62	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	6	7
Sodium	ppm	2	2	4	2
Potassium	ppm	<1	0	<1	<1

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	14	8	9	13
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	4	2	2	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	41	41	43	41
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1765	1756	1800	1682
Magnesium	ppm	516	513	534	519
Zinc	ppm	1105	1114	1162	1094
Phosphorus	ppm	951	933	985	981
Barium	ppm	0	<1	<1	0
Boron	ppm	35	36	40	37

Depot: VOLVO9652
Unique No: 5711602
Signed: Wes Davis
Report Date: 23 Jan 2024

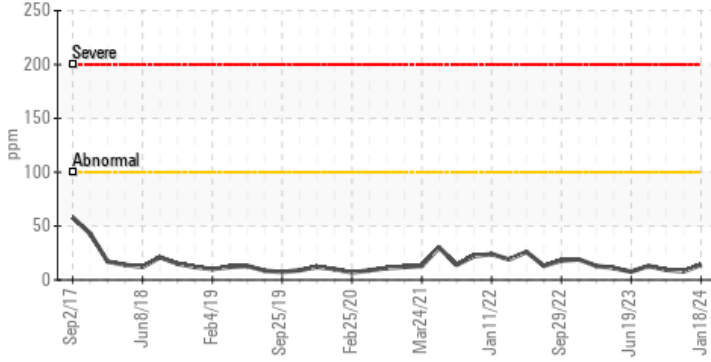


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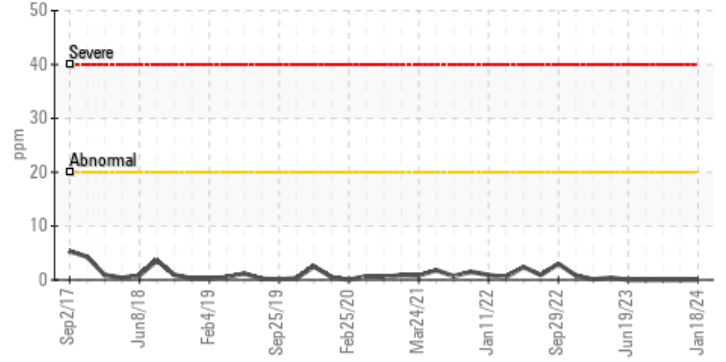


GRAPHS

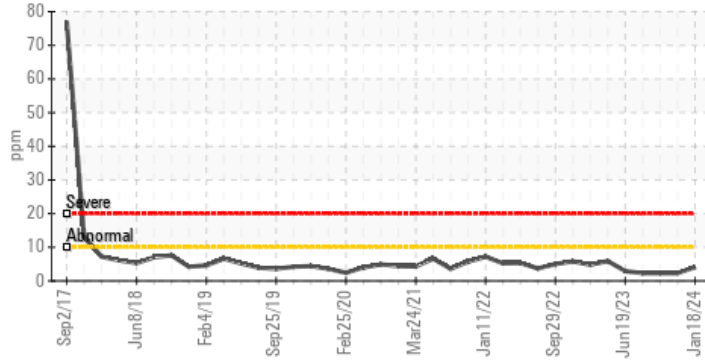
Iron (ppm)



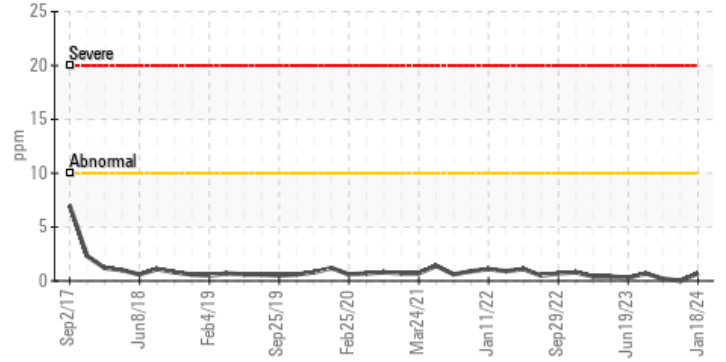
Lead (ppm)



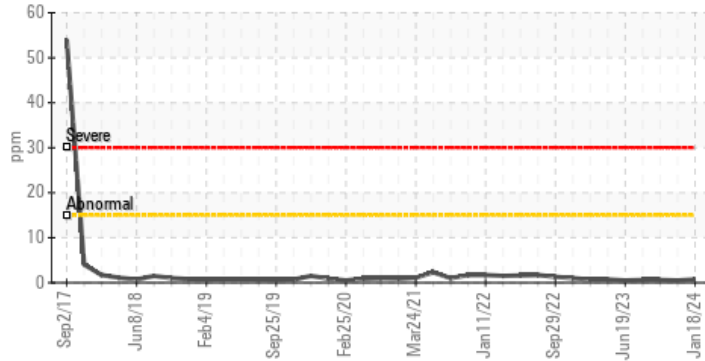
Aluminum (ppm)



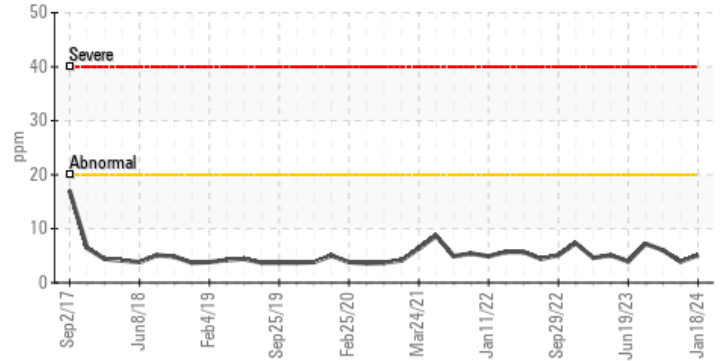
Chromium (ppm)



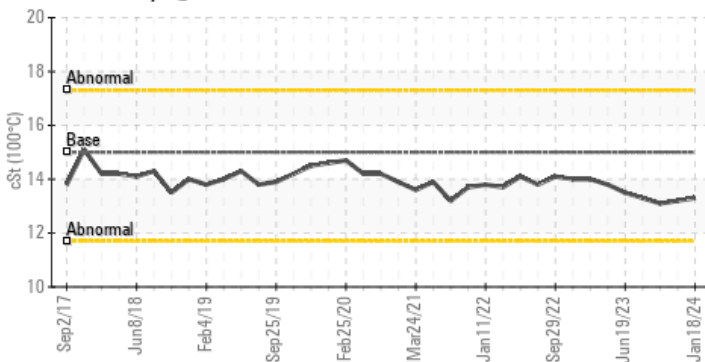
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

