



CONSTRUCTION EQUIPMENT

388311 VOLVO L120H 632081 - DIESEL ENGINE



Sample No: VCP394655
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 388311



SAMPLE INFORMATION

Sample Number	VCP394655	VCP394279	VCP353392	VCP392444
Sample Date	08 Dec 2023	20 Oct 2023	31 Aug 2023	14 Jul 2023
Machine Hours	33496	32610	31747	31257
Oil Hours	500	0	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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 RED DEER COUNTY, AB
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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.4	13.1	13.3
Oxidation (PA)	%	88	87	85	86

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.2	0.1
Nitration (PA)	%	65	63	59	58
Sulfation (PA)	%	65	65	68	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	4	5
Sodium	ppm	7	11	8	10
Potassium	ppm	0	0	<1	0

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	8	9	7	7
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	3	3	3	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	41	46	40	41
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1707	1914	1659	1726
Magnesium	ppm	515	572	509	516
Zinc	ppm	1102	1236	1078	1109
Phosphorus	ppm	907	1028	992	985
Barium	ppm	<1	0	0	0
Boron	ppm	36	36	36	34

Depot: VOLVO9652
Unique No: 5695792
Signed: Wes Davis
Report Date: 13 Dec 2023

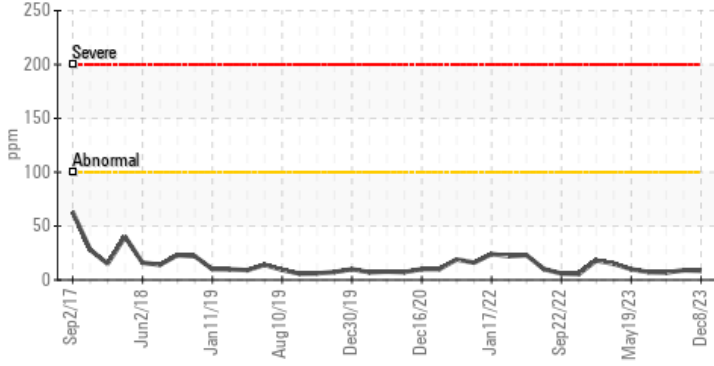


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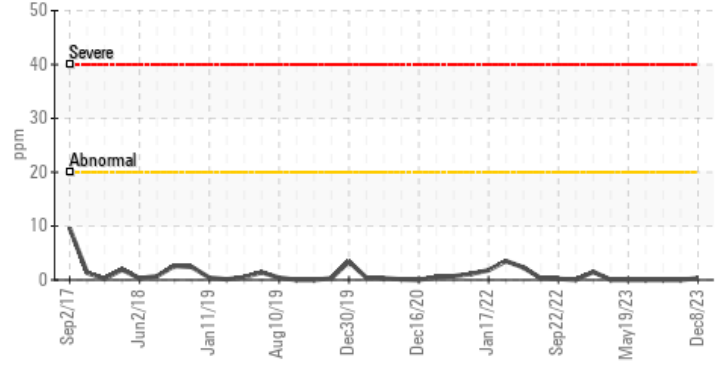


GRAPHS

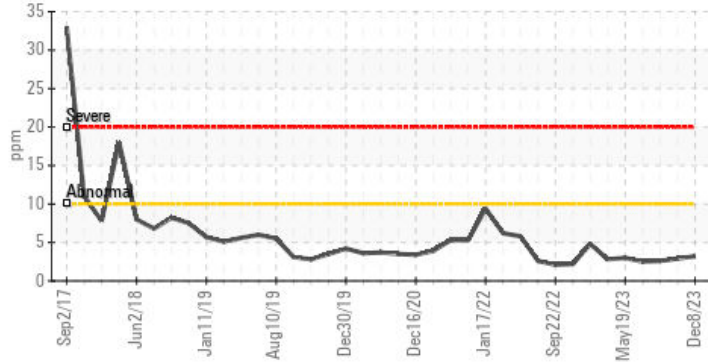
Iron (ppm)



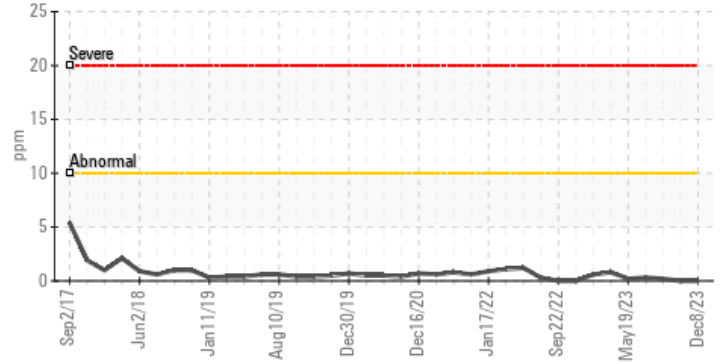
Lead (ppm)



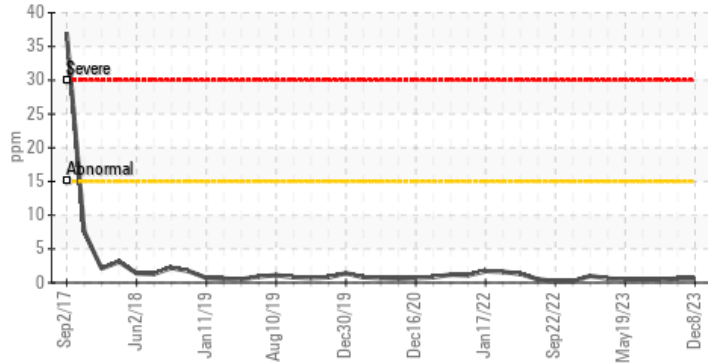
Aluminum (ppm)



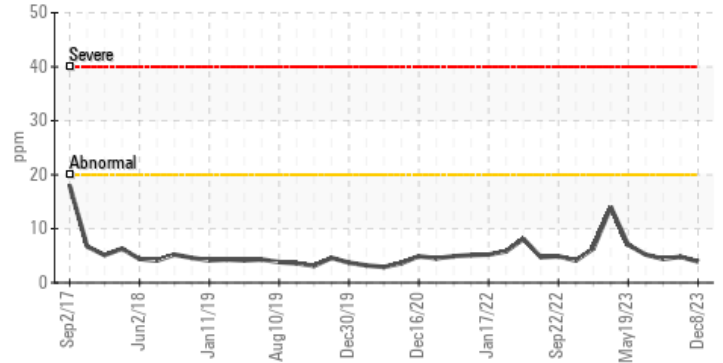
Chromium (ppm)



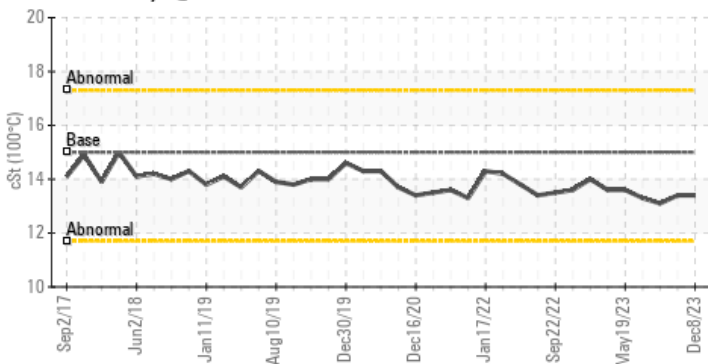
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

