



CONSTRUCTION EQUIPMENT

8000391129 VOLVO L120H 632081 - DIESEL ENGINE



Sample No: VCP392868
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 8000391129



SAMPLE INFORMATION

Sample Number	VCP392868	VCP394655	VCP394279	VCP353392
Sample Date	19 Jan 2024	08 Dec 2023	20 Oct 2023	31 Aug 2023
Machine Hours	34207	33496	32610	31747
Oil Hours	0	500	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIP (AB)
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 RED DEER COUNTY, AB
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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.4	13.4	13.1
Oxidation (PA)	%	84	88	87	85



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0.3	0.2
Nitration (PA)	%	60	65	63	59
Sulfation (PA)	%	64	65	65	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	4
Sodium	ppm	6	7	11	8
Potassium	ppm	0	0	0	<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	8	8	9	7
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	3	3	3	3
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	41	41	46	40
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1742	1707	1914	1659
Magnesium	ppm	510	515	572	509
Zinc	ppm	1087	1102	1236	1078
Phosphorus	ppm	932	907	1028	992
Barium	ppm	0	<1	0	0
Boron	ppm	38	36	36	36

Depot: VOLVO9652
Unique No: 5711599
Signed: Wes Davis
Report Date: 23 Jan 2024

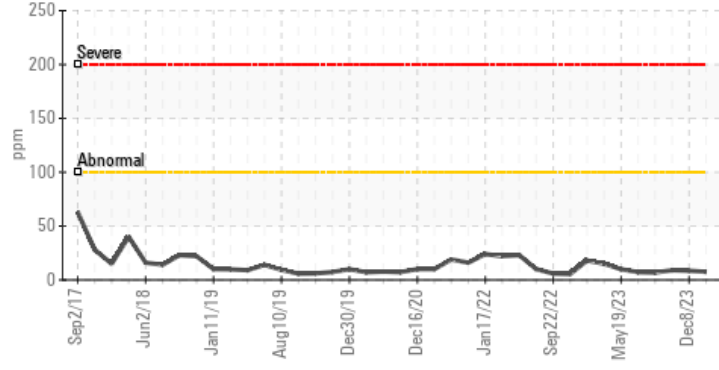


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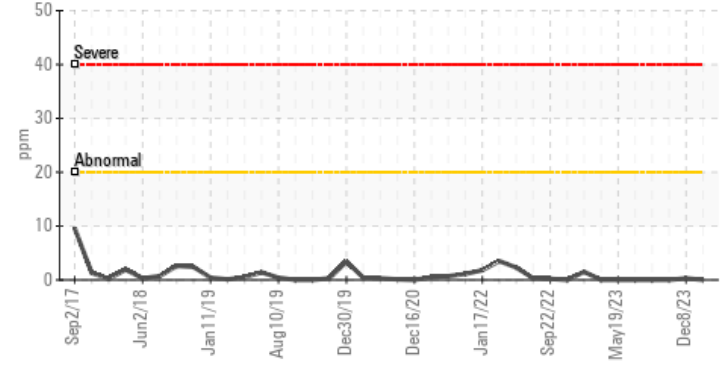


GRAPHS

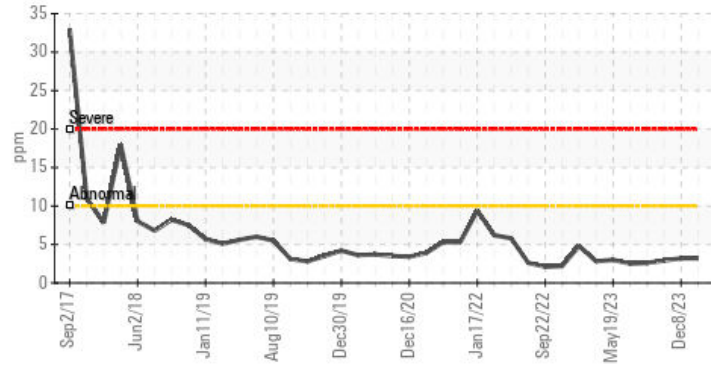
Iron (ppm)



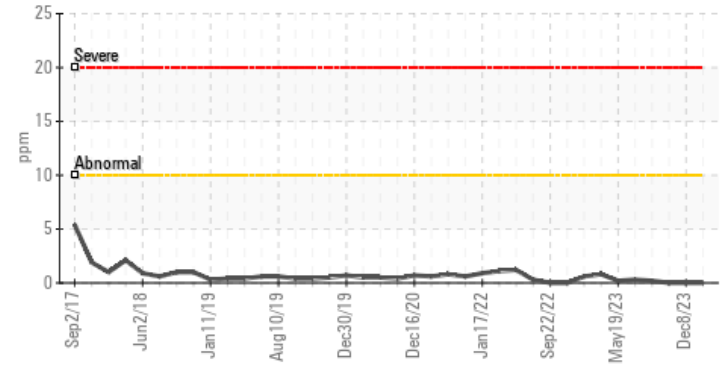
Lead (ppm)



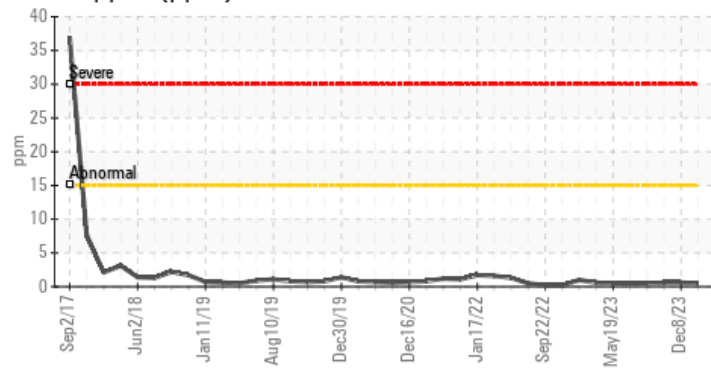
Aluminum (ppm)



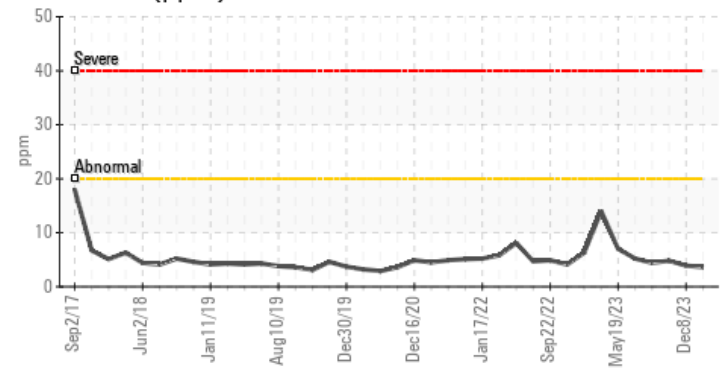
Chromium (ppm)



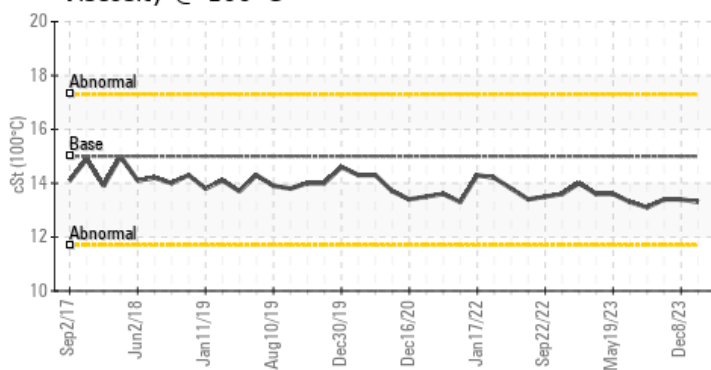
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

