



CONSTRUCTION EQUIPMENT

8000383348 VOLVO L120H 632718 - DIESEL ENGINE



Sample No: VCP392893
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 8000383348



SAMPLE INFORMATION

Sample Number	VCP392893	VCP391560	LH394700	VCP392196
Sample Date	03 Nov 2023	27 Sep 2023	11 Aug 2023	05 Jun 2023
Machine Hours	10767	10000	9412	8691
Oil Hours	0	500	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	13.5	13.3	13.1	13.5
Oxidation (PA)	%	84	83	82	84



CONTAMINATION

Soot %	%	0.6	0.6	0.8	0.6
Nitration (PA)	%	62	61	64	57
Sulfation (PA)	%	66	66	68	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	10	6	6
Sodium	ppm	3	3	3	2
Potassium	ppm	0	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	17	21	16	14
Copper	ppm	1	2	1	<1
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	7	6	7	6
Chromium	ppm	<1	1	1	<1
Molybdenum	ppm	42	40	41	39
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	<1	<1	<1	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1738	1660	1699	1725
Magnesium	ppm	516	499	514	483
Zinc	ppm	1115	1083	1094	1043
Phosphorus	ppm	931	916	986	966
Barium	ppm	<1	<1	0	0
Boron	ppm	36	33	31	39

Depot: VOLVO9652
Unique No: 5681834
Signed: Wes Davis
Report Date: 16 Nov 2023

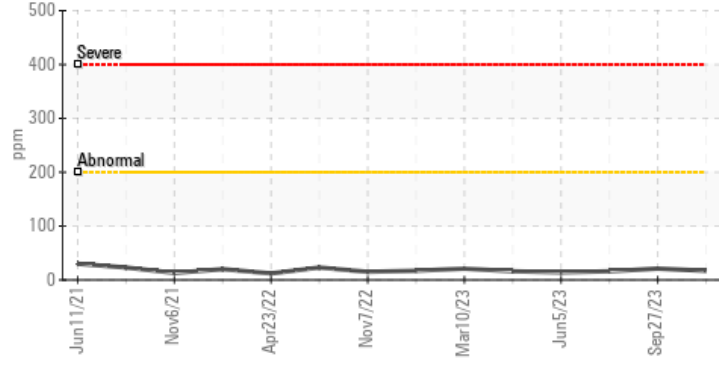


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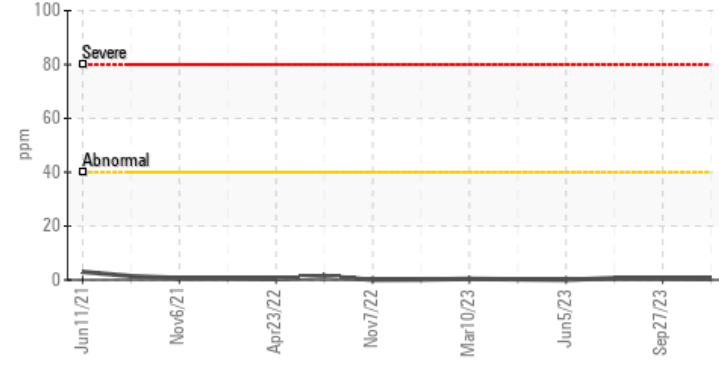


GRAPHS

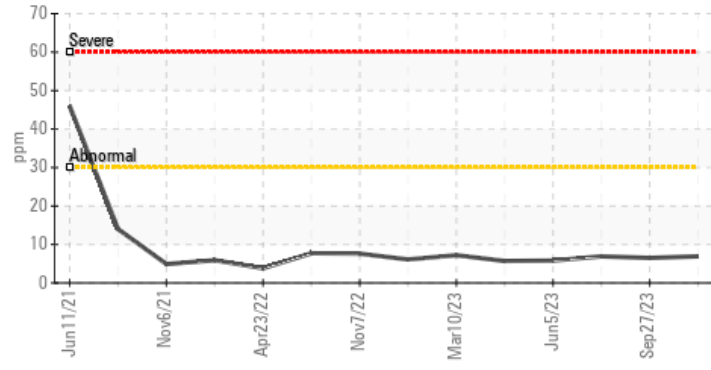
Iron (ppm)



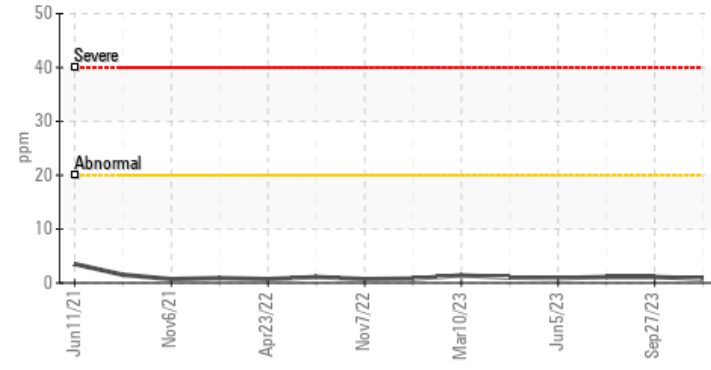
Lead (ppm)



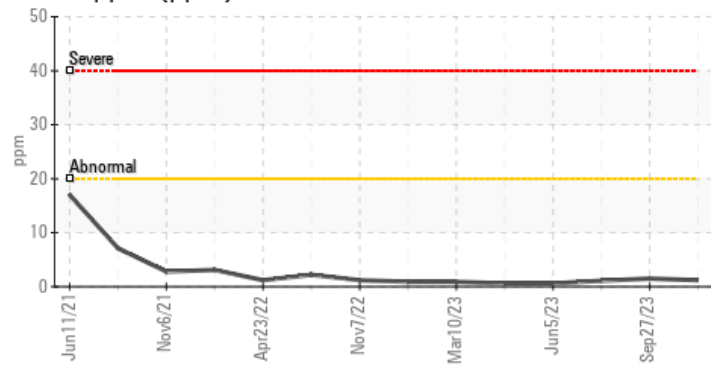
Aluminum (ppm)



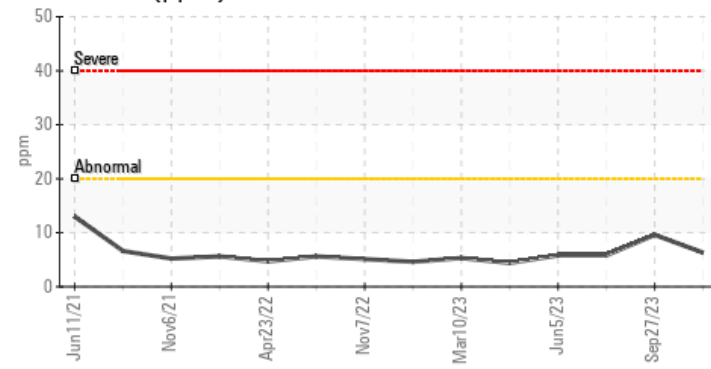
Chromium (ppm)



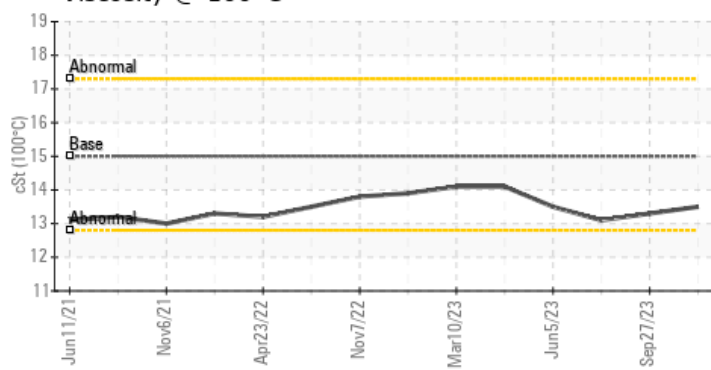
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

