



CONSTRUCTION EQUIPMENT

393070 VOLVO L120H 632067 - DIESEL ENGINE



Sample No: VCP380410
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 393070



SAMPLE INFORMATION

Sample Number	VCP380410	VCP391804	VCP392435	VCP380862
Sample Date	26 Jan 2024	02 Nov 2023	25 Jul 2023	24 May 2023
Machine Hours	27270	26442	25908	25175
Oil Hours	0	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIP (AB)
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 RED DEER COUNTY, AB
 CA T4S 2L4
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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.4	13.7	13.6
Oxidation (PA)	%	84	84	81	83

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.5	0.5	0.4
Nitration (PA)	%	59	58	58	56
Sulfation (PA)	%	65	65	65	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	6	5
Sodium	ppm	2	3	2	2
Potassium	ppm	<1	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	16	18	16	12
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	<1	0	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	8	9	6	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	39	42	43	41
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1692	1694	1595	1802
Magnesium	ppm	497	517	569	511
Zinc	ppm	1050	1113	1091	1099
Phosphorus	ppm	918	927	974	1001
Barium	ppm	0	<1	0	0
Boron	ppm	43	37	29	43

Depot: VOLVO9652
Unique No: 5721853
Signed: Wes Davis
Report Date: 01 Feb 2024

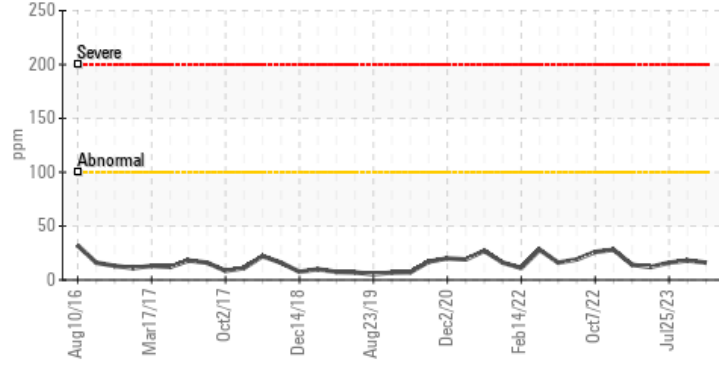


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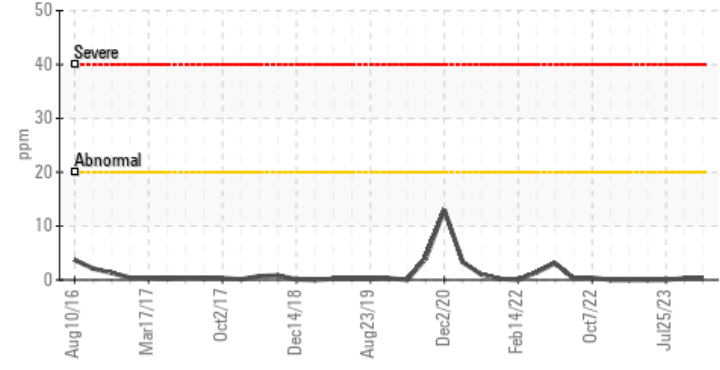


GRAPHS

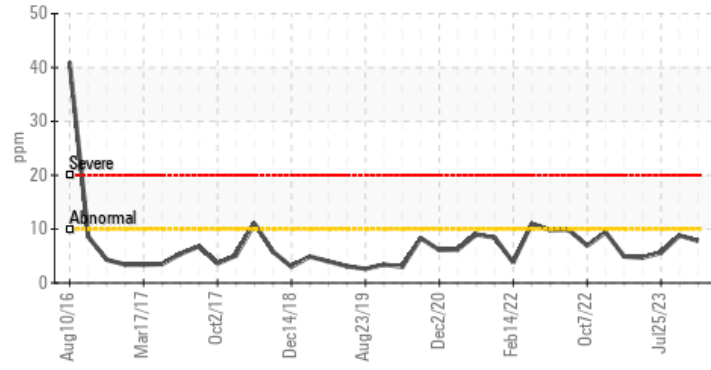
Iron (ppm)



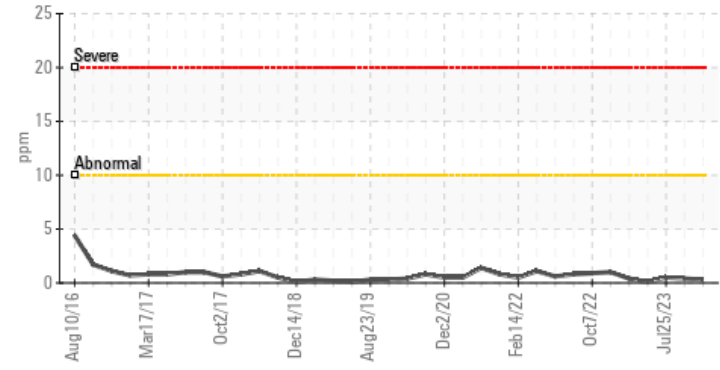
Lead (ppm)



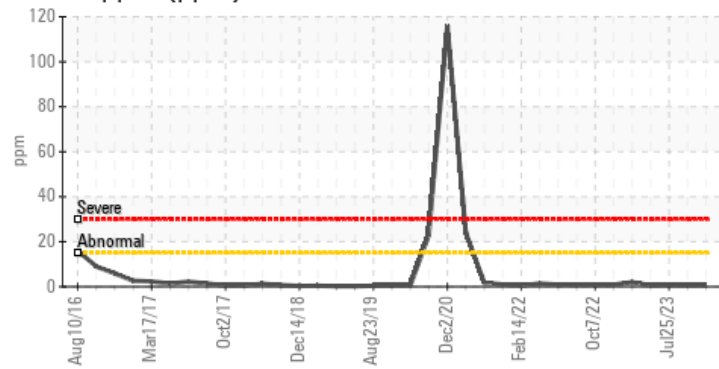
Aluminum (ppm)



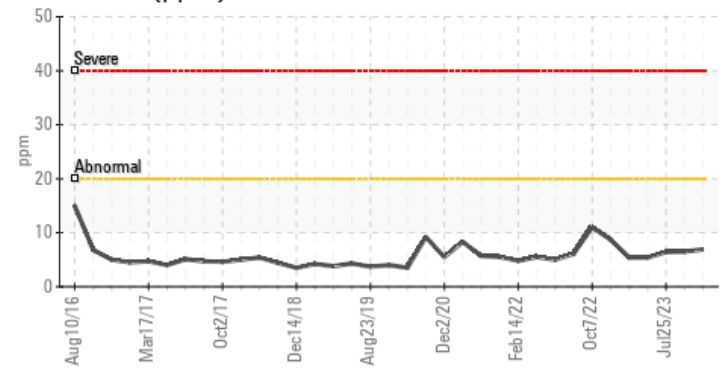
Chromium (ppm)



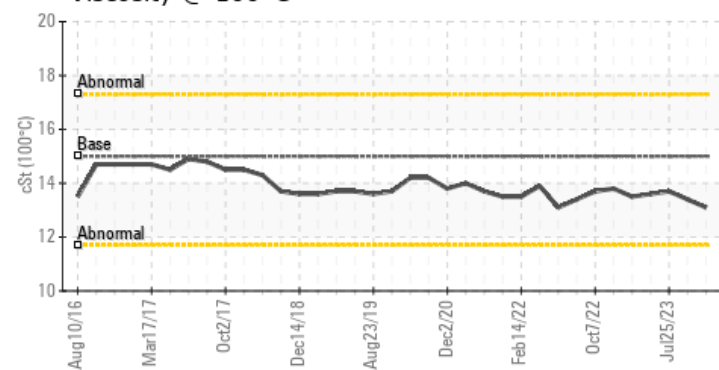
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

