



CONSTRUCTION EQUIPMENT

376916 VOLVO L120H 632081 - DIESEL ENGINE



Sample No: VCP353392
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 376916



SAMPLE INFORMATION

Sample Number	VCP353392	VCP392444	VCP380876	VCP334406
Sample Date	31 Aug 2023	14 Jul 2023	19 May 2023	31 Mar 2023
Machine Hours	31747	31257	30688	30060
Oil Hours	500	500	1000	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIP (AB)
 6 - 38403 BURNT LAKE TRAIL
 RED DEER COUNTY, AB
 CA T4S 2L4
 Contact: Perry Doyle
 pdoyle@strongco.com
 T: (403)346-3473
 F: (403)346-3487

OIL CONDITION

Visc @ 100°C	cSt	13.1	13.3	13.6	13.6
Oxidation (PA)	%	85	86	88	84

CONTAMINATION

Soot %	%	0.2	0.1	0.2	0
Nitration (PA)	%	59	58	63	60
Sulfation (PA)	%	68	65	65	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	7	14
Sodium	ppm	8	10	5	3
Potassium	ppm	<1	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	7	7	10	15
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	3	2	3	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	41	40	41
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1659	1726	1796	1835
Magnesium	ppm	509	516	511	511
Zinc	ppm	1078	1109	1084	1101
Phosphorus	ppm	992	985	986	1001
Barium	ppm	0	0	0	0
Boron	ppm	36	34	36	43

Depot: VOLVO9652
Unique No: 5633672
Signed: Wes Davis
Report Date: 06 Sep 2023

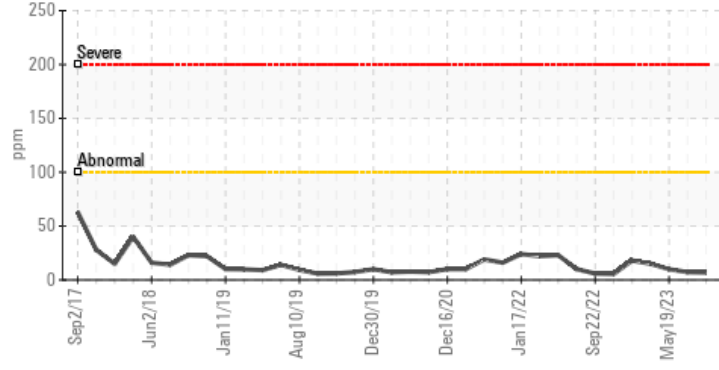


CONSTRUCTION EQUIPMENT

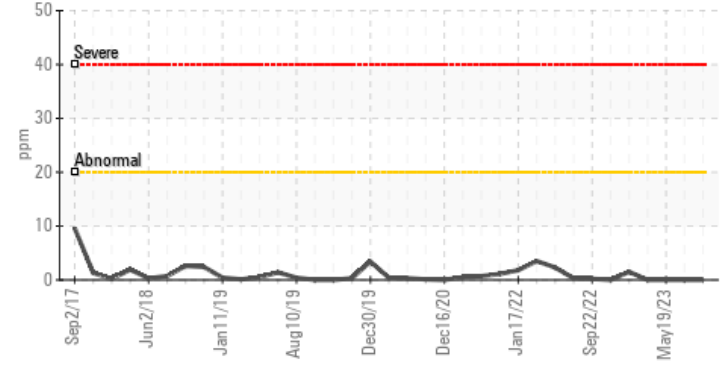


GRAPHS

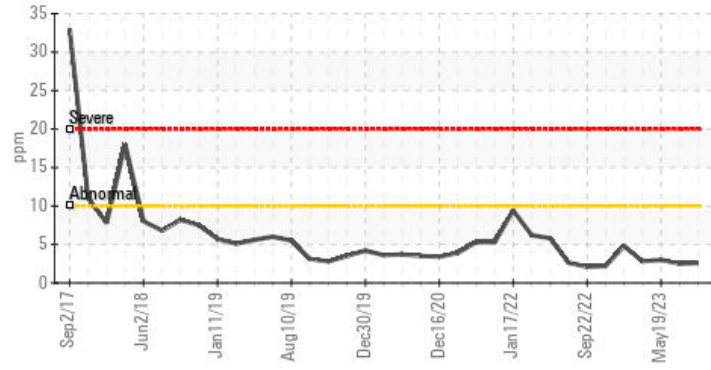
Iron (ppm)



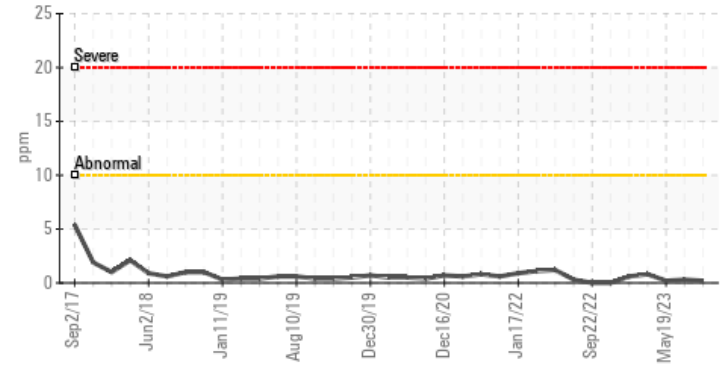
Lead (ppm)



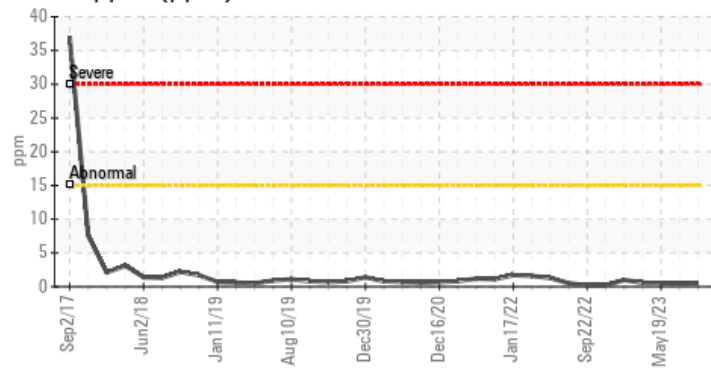
Aluminum (ppm)



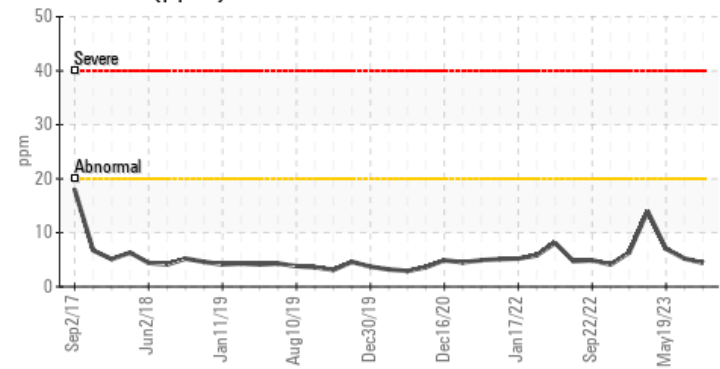
Chromium (ppm)



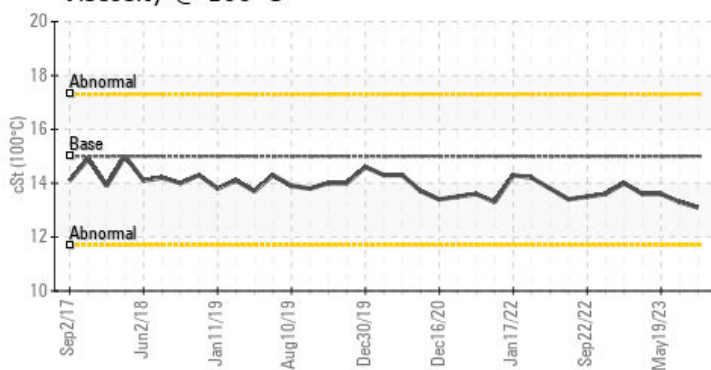
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

