



CONSTRUCTION EQUIPMENT

407688 VOLVO L120H 632067 - DIESEL ENGINE



Sample No: VCP334148
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 407688



SAMPLE INFORMATION

Sample Number	VCP334148	VCP448206	VCP430126	VCP380410
Sample Date	14 Jun 2024	23 Apr 2024	11 Mar 2024	26 Jan 2024
Machine Hours	29499	28920	28056	27270
Oil Hours	500	500	500	0
Oil Changed	Changed	Changed	Changed	Changed
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)391-3520
 F: (403)346-3487

OIL CONDITION

Visc @ 40°C	cSt	94.7	---	---	---
Visc @ 100°C	cSt	13.0	13.4	13.3	13.1
Viscosity Index (VI)	Scale	135	---	---	---
Oxidation (PA)	%	83	82	84	84

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.

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.4	0.4	0.3
Nitration (PA)	%	58	60	60	59
Sulfation (PA)	%	65	64	65	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	3	7
Sodium	ppm	2	2	2	2
Potassium	ppm	0	0	<1	<1

WEAR METALS

Iron	ppm	12	12	10	16
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	8	5	4	8
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	41	40	39	39
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1760	1735	1684	1692
Magnesium	ppm	509	507	499	497
Zinc	ppm	1110	1082	1046	1050
Phosphorus	ppm	933	908	920	918
Barium	ppm	0	0	0	0
Boron	ppm	39	36	42	43

Depot: VOLVO9652
Unique No: 5800058
Signed: Wes Davis
Report Date: 18 Jun 2024

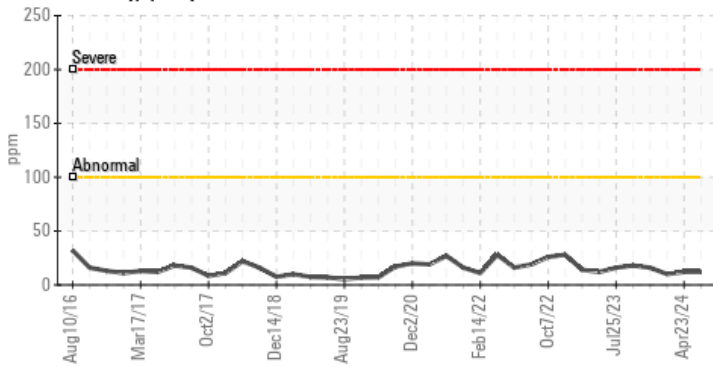


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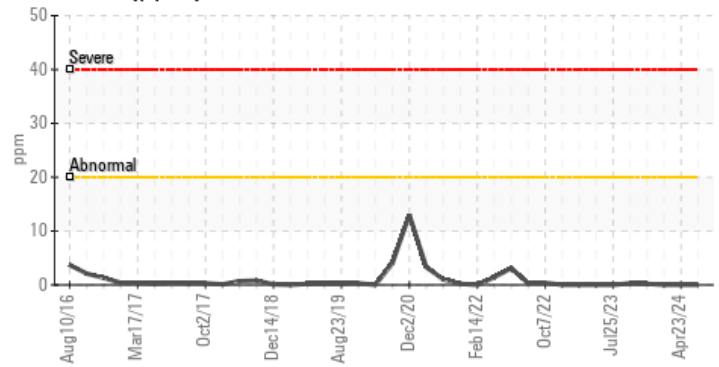


GRAPHS

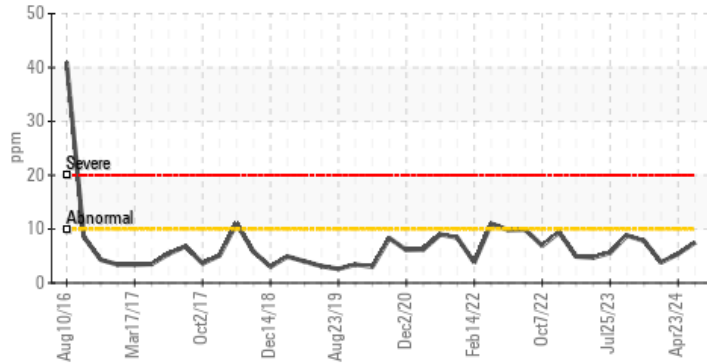
Iron (ppm)



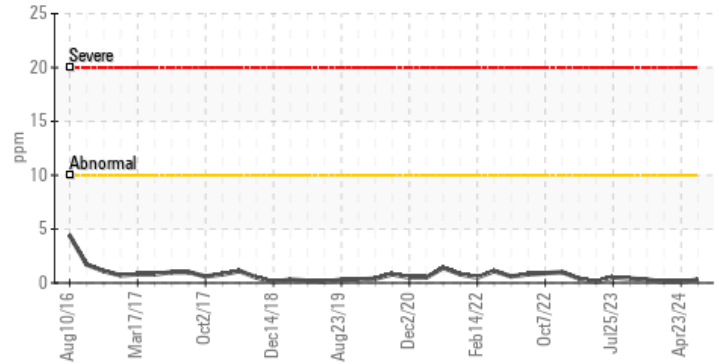
Lead (ppm)



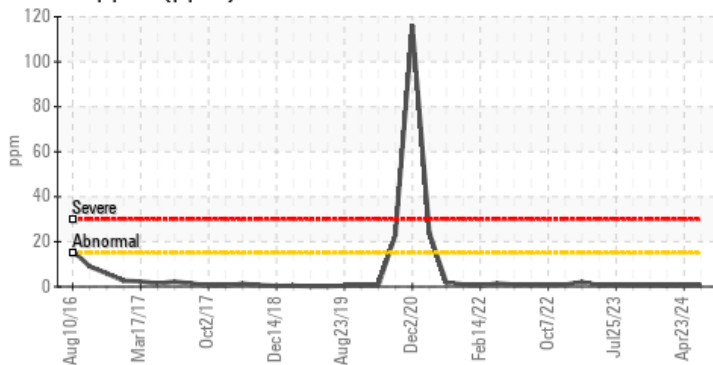
Aluminum (ppm)



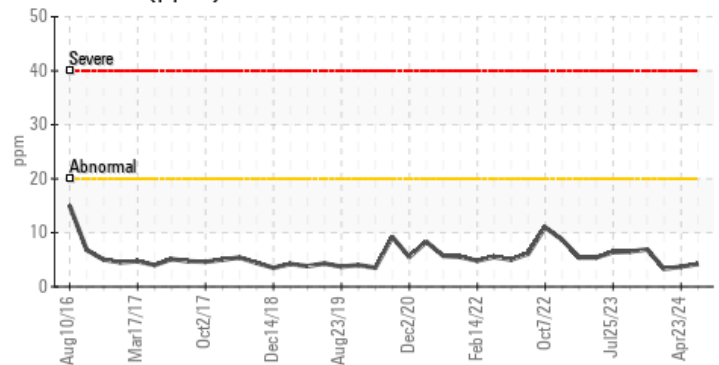
Chromium (ppm)



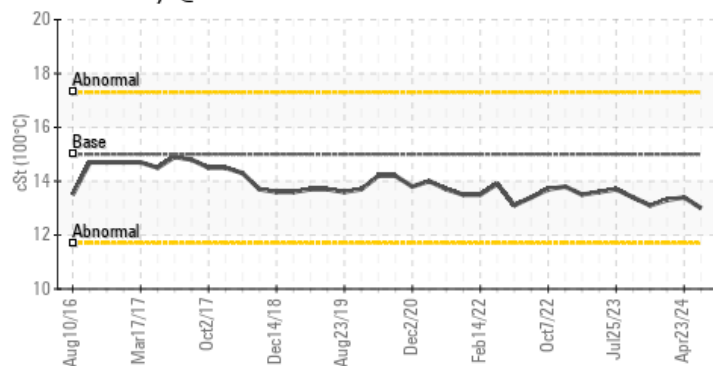
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

