



CONSTRUCTION EQUIPMENT

409216 VOLVO L120H 632080 - DIESEL ENGINE



Sample No: VCP333742
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 409216



SAMPLE INFORMATION

Sample Number	VCP333742	VCP448367	VCP430128	VCP392873
Sample Date	21 Jun 2024	07 May 2024	11 Mar 2024	18 Jan 2024
Machine Hours	34881	34330	33670	33132
Oil Hours	500	1000	500	500
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 @ 100°C	cSt	13.2	13.3	13.3	13.3
Oxidation (PA)	%	85	82	84	87

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.4	0.4	0.4
Nitration (PA)	%	63	64	63	67
Sulfation (PA)	%	65	63	63	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	4	5
Sodium	ppm	2	2	2	2
Potassium	ppm	<1	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	8	9	10	14
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	5	4	3	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	39	40	41	41
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1681	1740	1739	1765
Magnesium	ppm	498	510	510	516
Zinc	ppm	1074	1088	1079	1105
Phosphorus	ppm	897	899	947	951
Barium	ppm	<1	<1	0	0
Boron	ppm	31	31	37	35

Depot: VOLVO9652
Unique No: 5801644
Signed: Wes Davis
Report Date: 26 Jun 2024

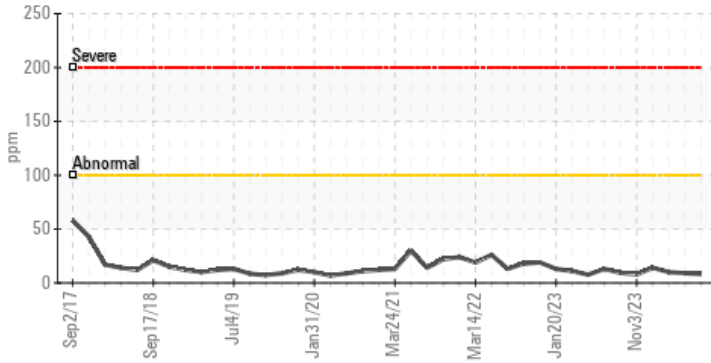


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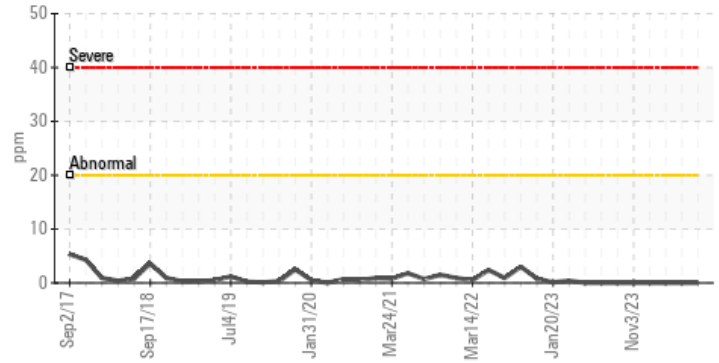


GRAPHS

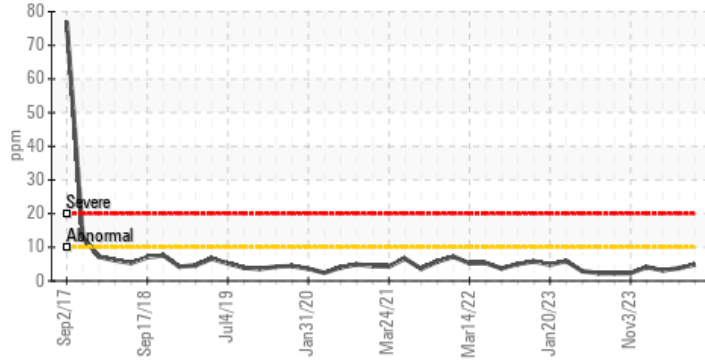
Iron (ppm)



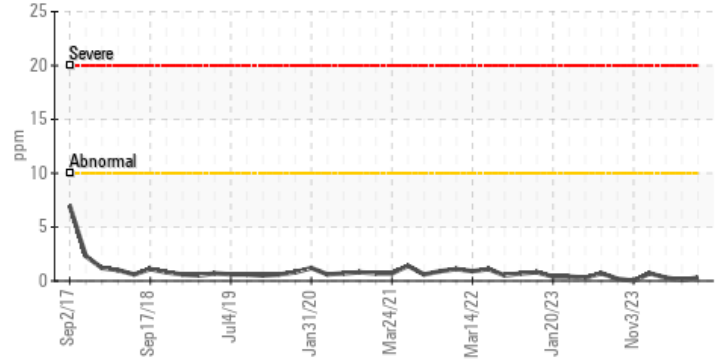
Lead (ppm)



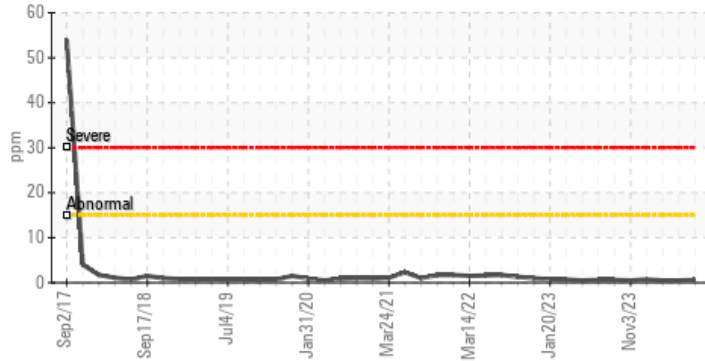
Aluminum (ppm)



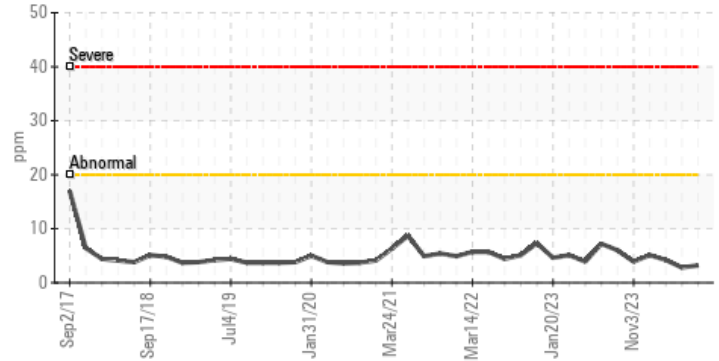
Chromium (ppm)



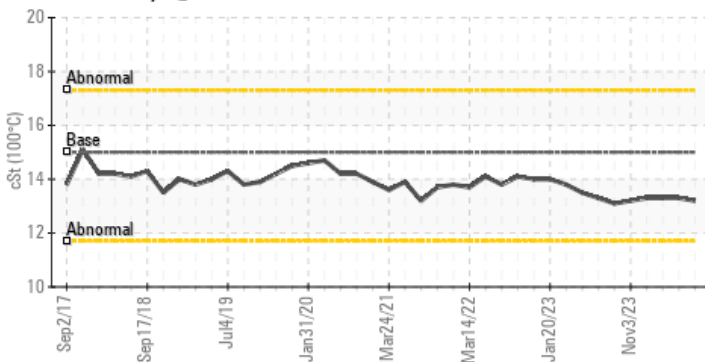
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

