



CONSTRUCTION EQUIPMENT

391125 VOLVO L120H 632541 - DIESEL ENGINE



Sample No: VCP392866
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 391125



SAMPLE INFORMATION

Sample Number	VCP392866	VCP391556	VCP394707	VCP394593
Sample Date	11 Jan 2024	08 Sep 2023	11 Aug 2023	30 Jun 2023
Machine Hours	14360	12747	12233	11551
Oil Hours	500	500	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	13.4	13.3	13.3	13.5
Oxidation (PA)	%	85	83	76	87

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.5	0.5	0.6
Nitration (PA)	%	63	58	59	63
Sulfation (PA)	%	65	65	64	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	4	5
Sodium	ppm	2	2	3	3
Potassium	ppm	0	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	8	8	9	11
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	<1	<1	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	6	6	6	7
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	41	41	41	41
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1731	1686	1700	1740
Magnesium	ppm	510	513	517	521
Zinc	ppm	1076	1101	1095	1104
Phosphorus	ppm	950	1016	984	979
Barium	ppm	0	0	0	0
Boron	ppm	34	32	29	31

Depot: VOLVO9652
Unique No: 5709763
Signed: Wes Davis
Report Date: 15 Jan 2024

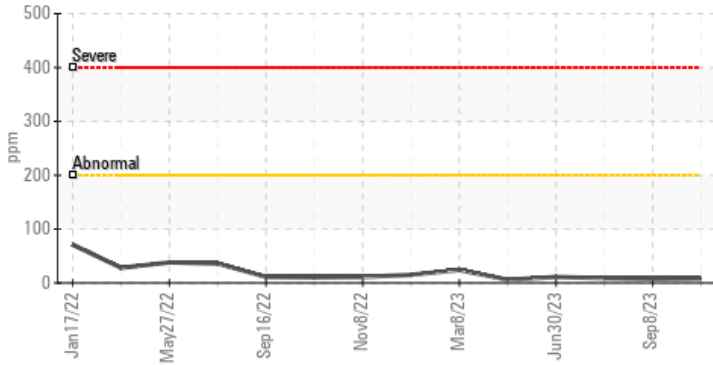


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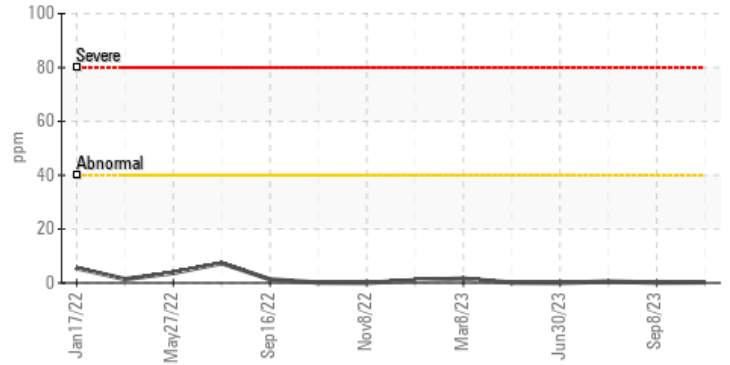


GRAPHS

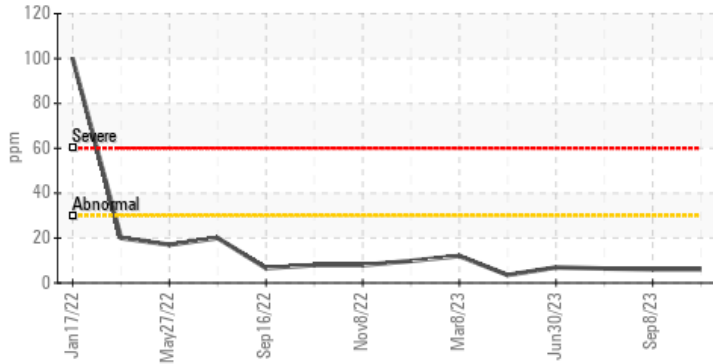
Iron (ppm)



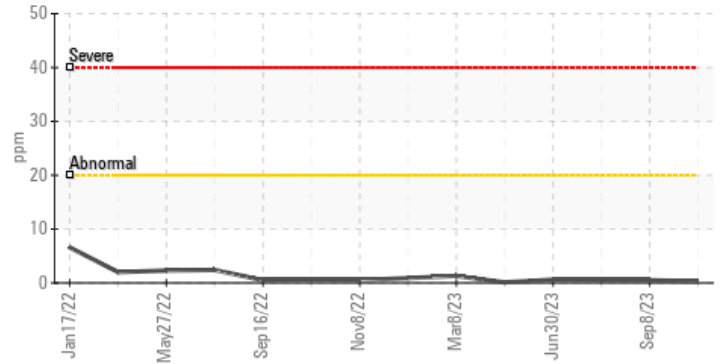
Lead (ppm)



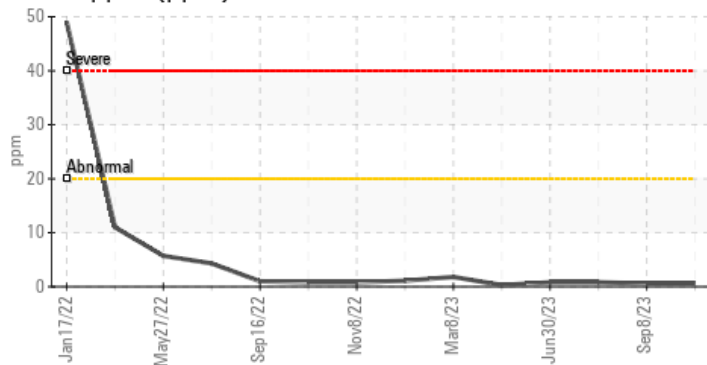
Aluminum (ppm)



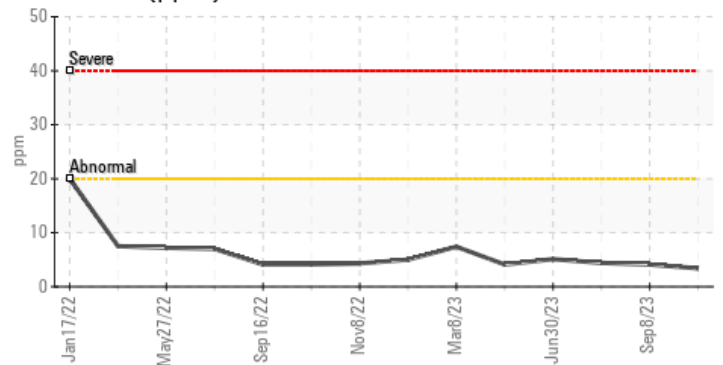
Chromium (ppm)



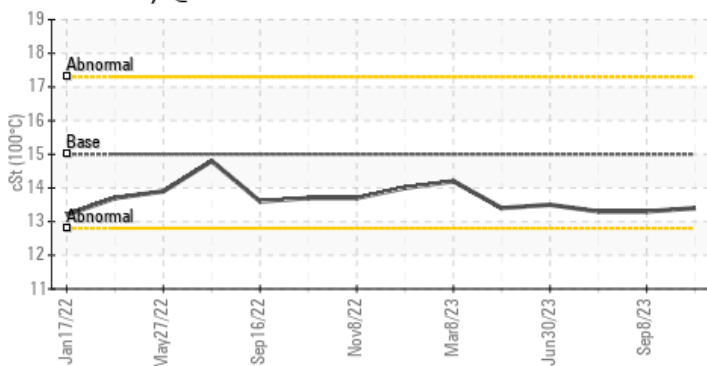
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

