



CONSTRUCTION EQUIPMENT

8000380394 VOLVO L120H 632080 - DIESEL ENGINE



Sample No: VCP394288
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 8000380394



SAMPLE INFORMATION

Sample Number	VCP394288	VCP394699	VCP392198	VCP334410
Sample Date	29 Sep 2023	18 Aug 2023	19 Jun 2023	31 Mar 2023
Machine Hours	31736	31284	30691	39130
Oil Hours	0	500	500	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
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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.3	13.5	13.8
Oxidation (PA)	%	81	82	86	78

CONTAMINATION

Soot %	%	0.1	0.1	0.2	0
Nitration (PA)	%	54	57	61	63
Sulfation (PA)	%	62	65	64	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	4	5
Sodium	ppm	4	2	2	3
Potassium	ppm	<1	<1	<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	9	13	8	11
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	2	2	3	6
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	41	41	42
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1800	1682	1724	1827
Magnesium	ppm	534	519	523	514
Zinc	ppm	1162	1094	1095	1103
Phosphorus	ppm	985	981	1027	1016
Barium	ppm	<1	0	0	0
Boron	ppm	40	37	39	39

Depot: VOLVO9652
Unique No: 5656179
Signed: Wes Davis
Report Date: 05 Oct 2023

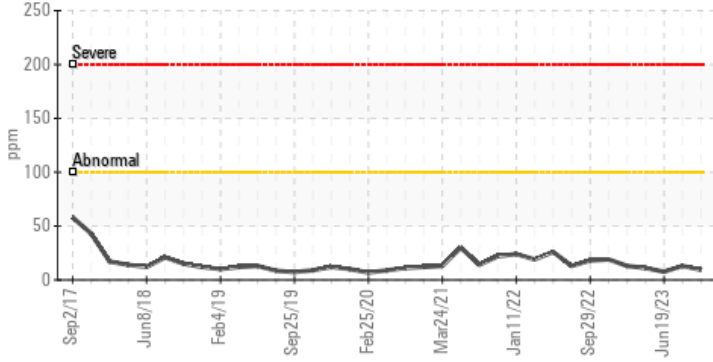


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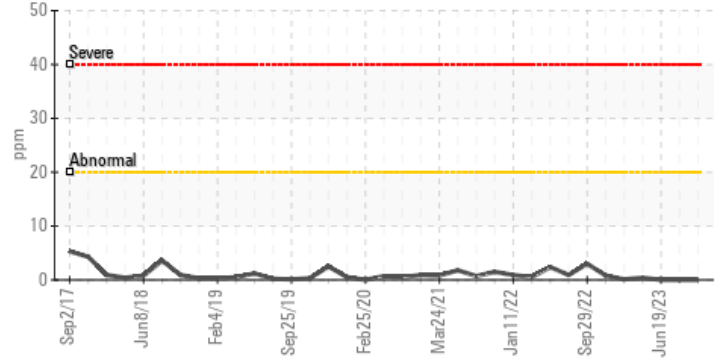


GRAPHS

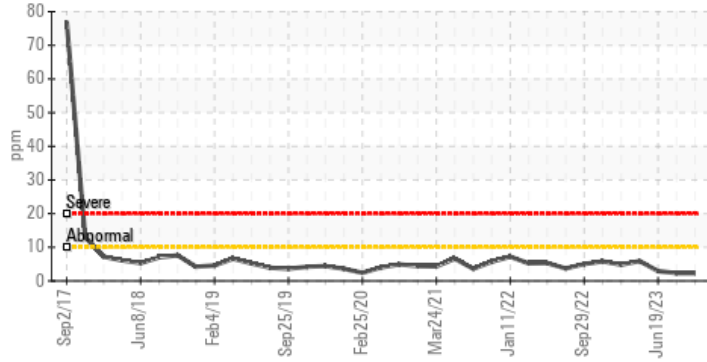
Iron (ppm)



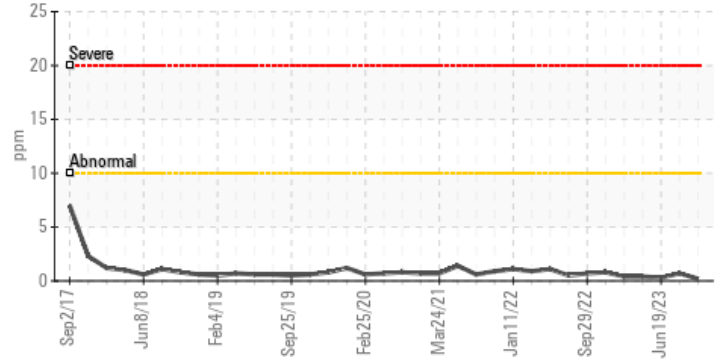
Lead (ppm)



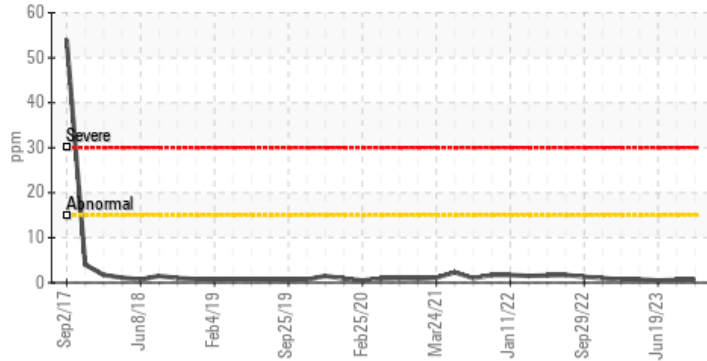
Aluminum (ppm)



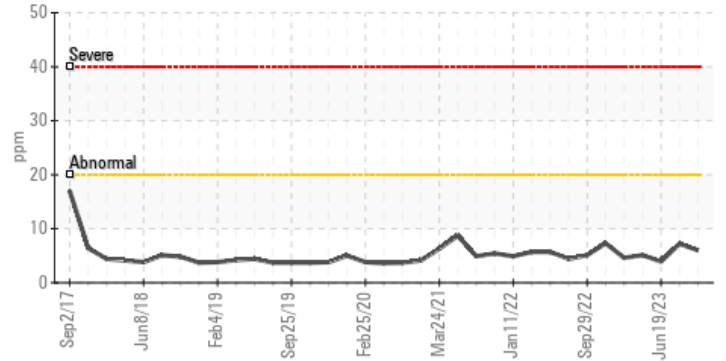
Chromium (ppm)



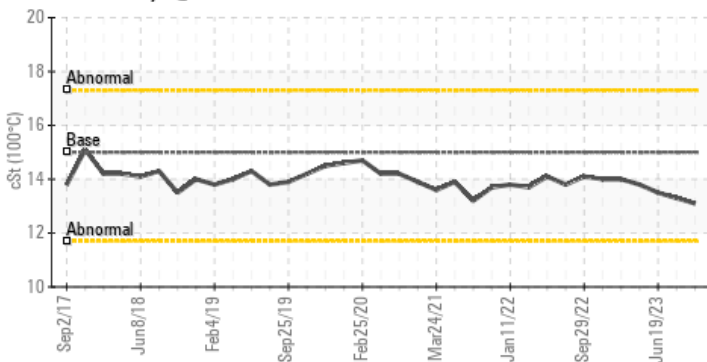
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

