



CONSTRUCTION EQUIPMENT

375986 VOLVO L120H 632080 - DIESEL ENGINE



Sample No: VCP394699
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 375986



SAMPLE INFORMATION

Sample Number	VCP394699	VCP392198	VCP334410	VCP353103
Sample Date	18 Aug 2023	19 Jun 2023	31 Mar 2023	20 Jan 2023
Machine Hours	31284	30691	39130	29492
Oil Hours	500	500	0	1000
Oil Changed	Changed	Changed	N/A	Changed
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	13.3	13.5	13.8	14.0
Oxidation (PA)	%	82	86	78	93

CONTAMINATION

Soot %	%	0.1	0.2	0	0.1
Nitration (PA)	%	57	61	63	75
Sulfation (PA)	%	65	64	67	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	4	5	5
Sodium	ppm	2	2	3	3
Potassium	ppm	<1	<1	<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	13	8	11	13
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	3	6	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	41	41	42	42
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	1682	1724	1827	1760
Magnesium	ppm	519	523	514	522
Zinc	ppm	1094	1095	1103	1133
Phosphorus	ppm	981	1027	1016	1014
Barium	ppm	0	0	0	0
Boron	ppm	37	39	39	32

Depot: VOLVO9652
Unique No: 5630436
Signed: Wes Davis
Report Date: 22 Aug 2023

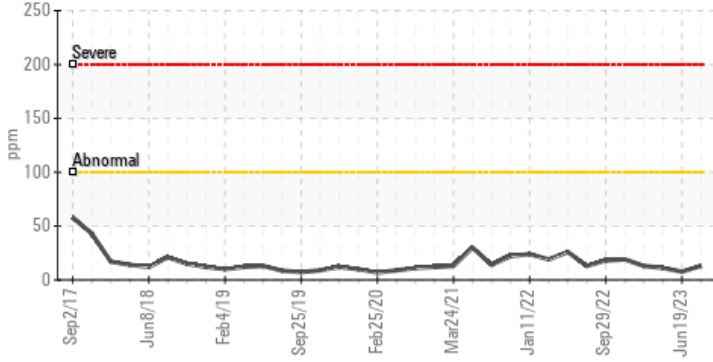


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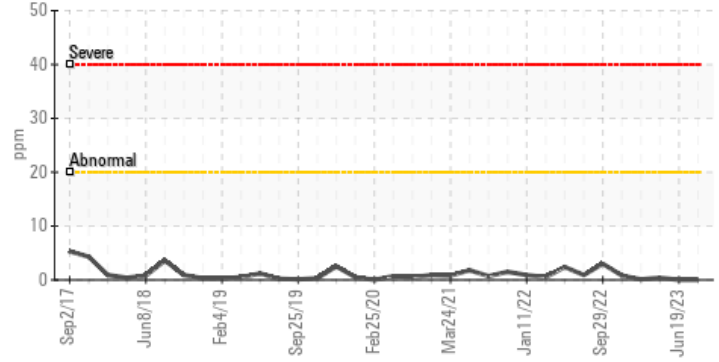


GRAPHS

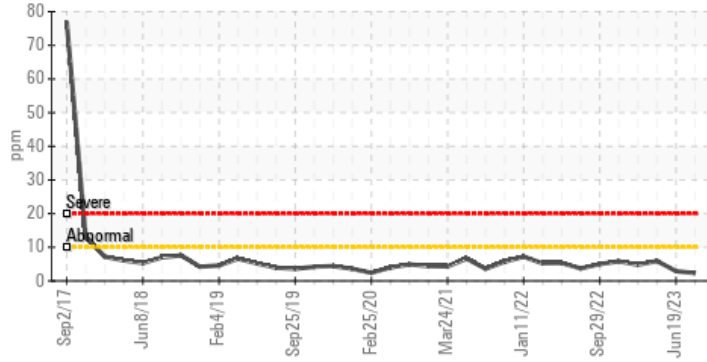
Iron (ppm)



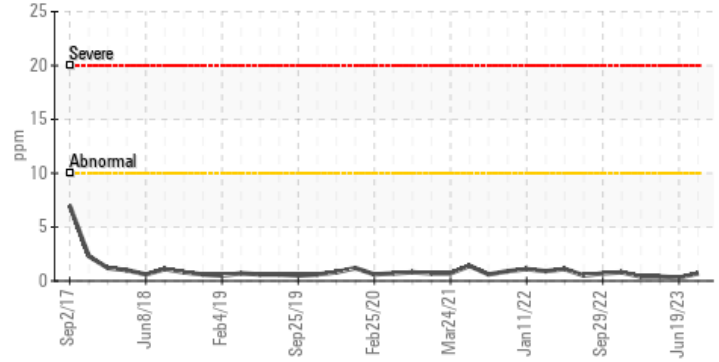
Lead (ppm)



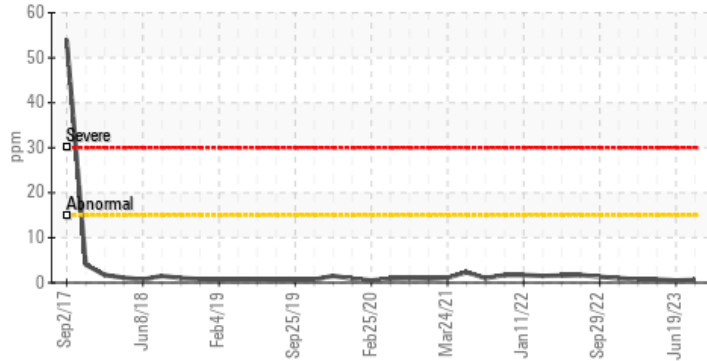
Aluminum (ppm)



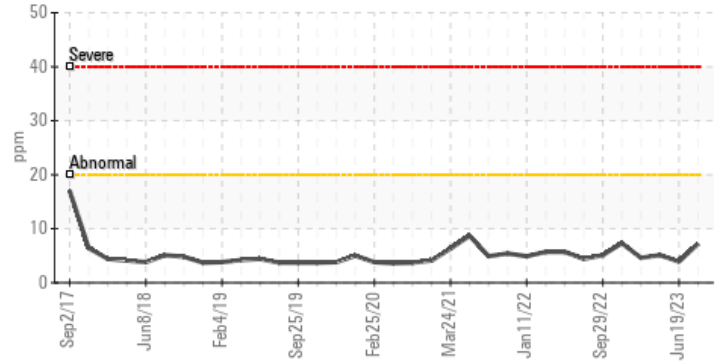
Chromium (ppm)



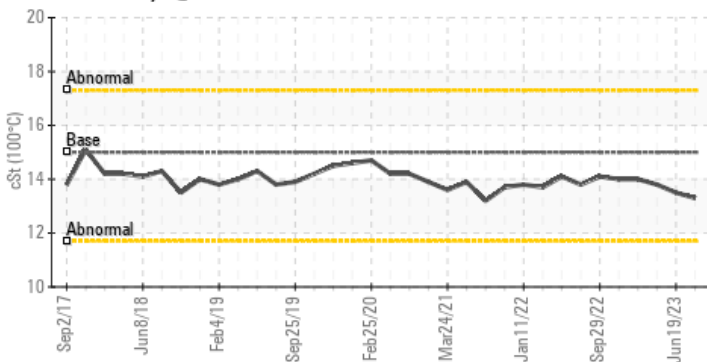
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

