



CONSTRUCTION EQUIPMENT

387633 VOLVO L120H 632068 - DIESEL ENGINE



Sample No: VCP394656
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 387633



SAMPLE INFORMATION

Sample Number	VCP394656	VCP394659	VCP394697	VCP381814
Sample Date	07 Dec 2023	26 Sep 2023	04 Aug 2023	15 May 2023
Machine Hours	31991	31581	31039	30386
Oil Hours	500	500	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 40°C	cSt	---	96.2	---	---
Visc @ 100°C	cSt	13.1	13.2	13.3	13.9
Viscosity Index (VI)	Scale	---	135	---	---
Oxidation (PA)	%	83	85	78	90



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.3
Nitration (PA)	%	57	61	60	74
Sulfation (PA)	%	62	64	63	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	4	7
Sodium	ppm	3	3	2	3
Potassium	ppm	0	0	<1	0



WEAR METALS

Iron	ppm	9	10	12	24
Copper	ppm	<1	<1	<1	1
Lead	ppm	0	<1	0	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	3	2	3	5
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	42	43	41	42
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1698	1748	1671	1851
Magnesium	ppm	517	535	517	525
Zinc	ppm	1097	1153	1076	1115
Phosphorus	ppm	922	962	989	1024
Barium	ppm	<1	<1	0	0
Boron	ppm	39	31	32	36

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.

Depot: VOLVO9652
Unique No: 5695794
Signed: Wes Davis
Report Date: 13 Dec 2023

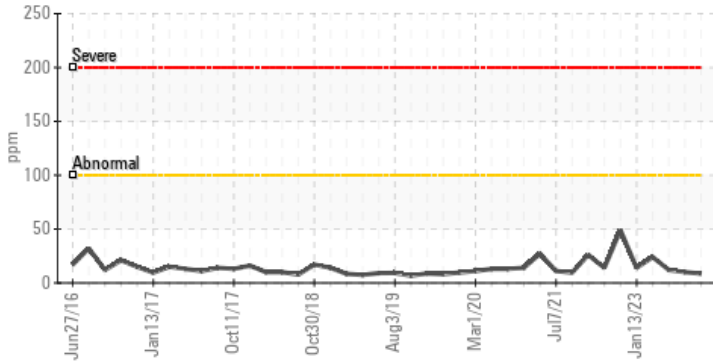


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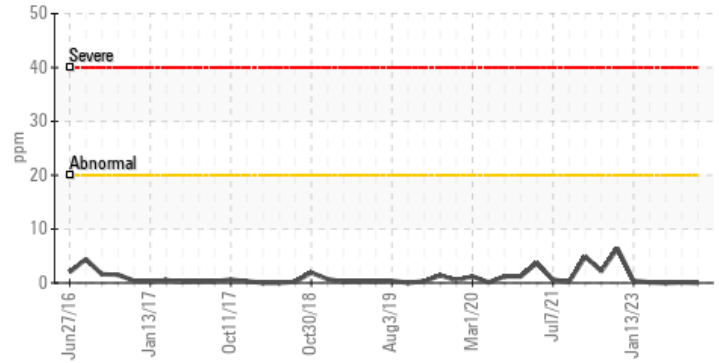


GRAPHS

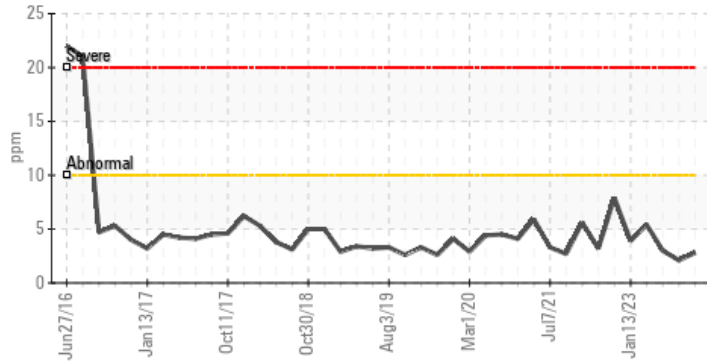
Iron (ppm)



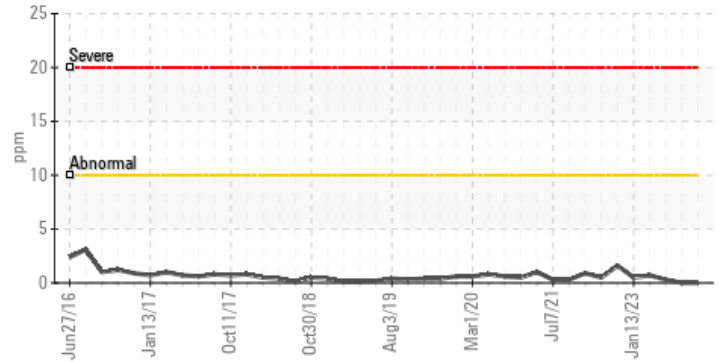
Lead (ppm)



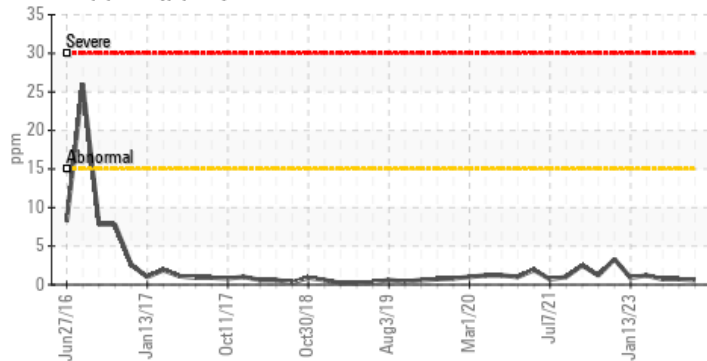
Aluminum (ppm)



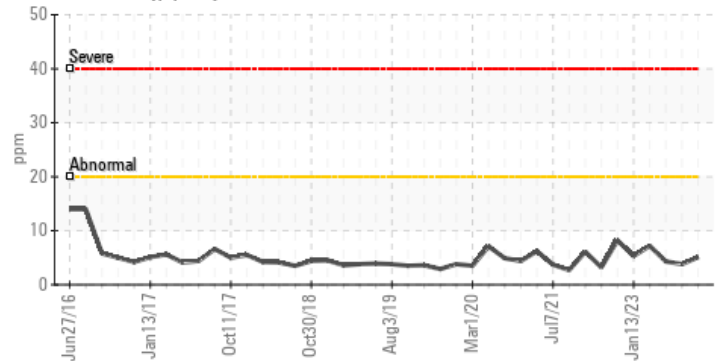
Chromium (ppm)



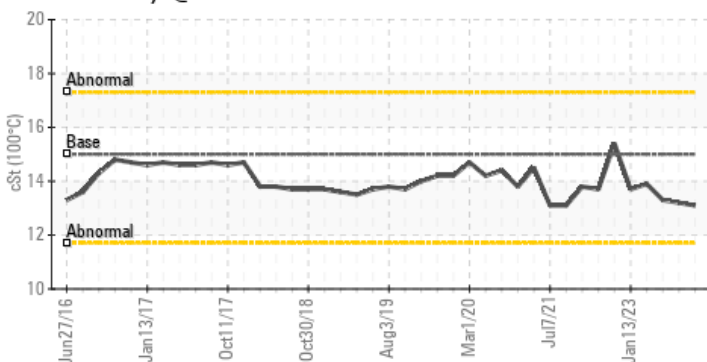
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

