



CONSTRUCTION EQUIPMENT

8000409218 VOLVO L120H 632081 - DIESEL ENGINE



Sample No: VCP3337741
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 8000409218



SAMPLE INFORMATION

Sample Number	VCP3337741	VCP448370	VCP430127	VCP392868
Sample Date	24 Jun 2024	10 May 2024	11 Mar 2024	19 Jan 2024
Machine Hours	36213	35654	34905	34207
Oil Hours	2000	500	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIP (AB)
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 RED DEER COUNTY, AB
 CA T4S 2L4
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OIL CONDITION

Visc @ 40°C	cSt	95.6	---	---	---
Visc @ 100°C	cSt	13.1	13.1	13.3	13.3
Viscosity Index (VI)	Scale	135	---	---	---
Oxidation (PA)	%	84	85	85	84

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	57	63	61	60
Sulfation (PA)	%	63	64	64	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	12	4	4
Sodium	ppm	4	13	12	6
Potassium	ppm	<1	<1	<1	0



WEAR METALS

Iron	ppm	11	22	8	8
Copper	ppm	<1	2	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	3	4	3	3
Chromium	ppm	<1	1	<1	0
Molybdenum	ppm	39	40	40	41
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1688	1724	1724	1742
Magnesium	ppm	500	511	505	510
Zinc	ppm	1068	1070	1070	1087
Phosphorus	ppm	903	908	940	932
Barium	ppm	0	0	0	0
Boron	ppm	36	35	38	38

Depot: VOLVO9652
Unique No: 5801651
Signed: Wes Davis
Report Date: 27 Jun 2024

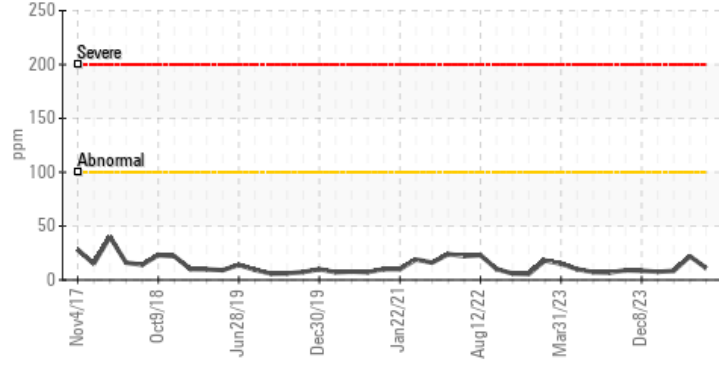


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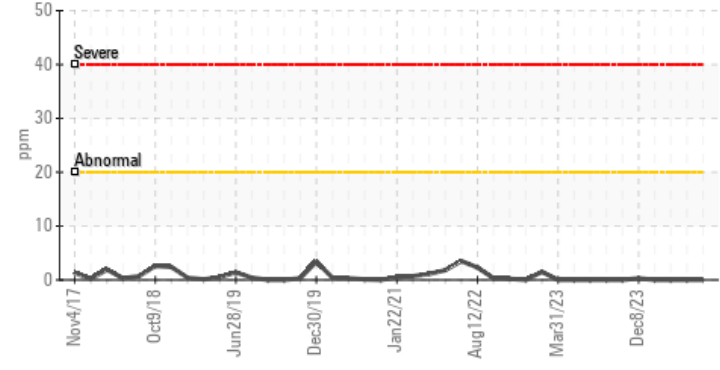


GRAPHS

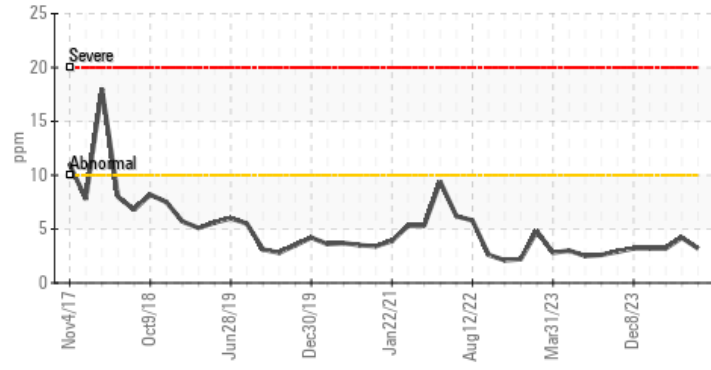
Iron (ppm)



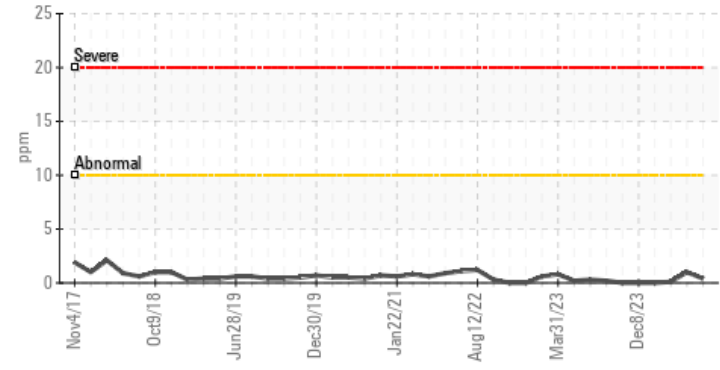
Lead (ppm)



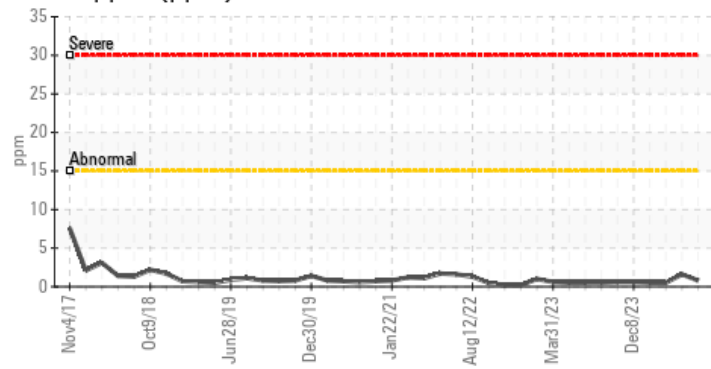
Aluminum (ppm)



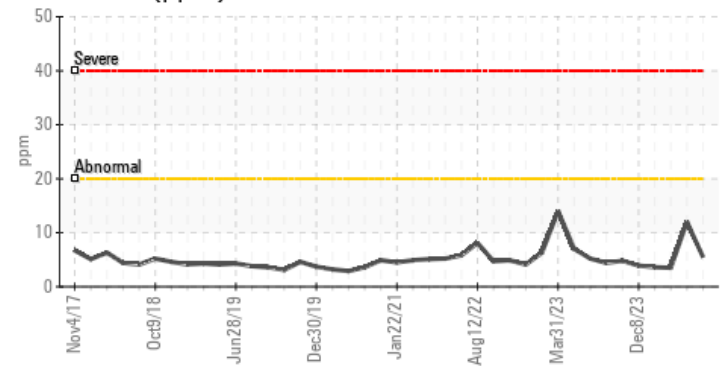
Chromium (ppm)



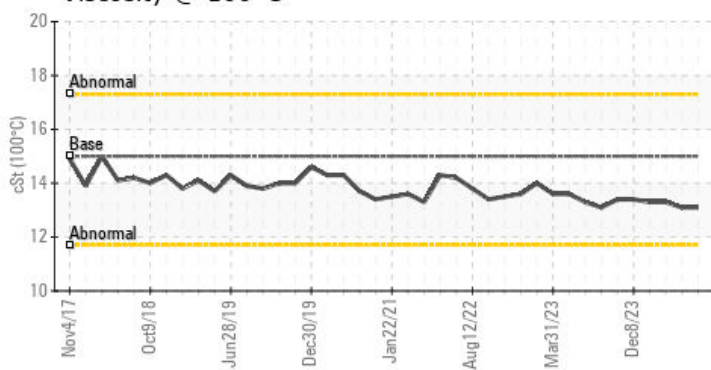
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

