



CONSTRUCTION EQUIPMENT

397712 VOLVO L120H 632067 - DIESEL ENGINE



Sample No: VCP430126
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 397712



SAMPLE INFORMATION

Sample Number	VCP430126	VCP380410	VCP391804	VCP392435
Sample Date	11 Mar 2024	26 Jan 2024	02 Nov 2023	25 Jul 2023
Machine Hours	28056	27270	26442	25908
Oil Hours	500	0	500	500
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 @ 100°C	cSt	13.3	13.1	13.4	13.7
Oxidation (PA)	%	84	84	84	81



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.3	0.5	0.5
Nitration (PA)	%	60	59	58	58
Sulfation (PA)	%	65	65	65	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	7	6	6
Sodium	ppm	2	2	3	2
Potassium	ppm	<1	<1	0	<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	10	16	18	16
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	<1	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	4	8	9	6
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	39	39	42	43
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1684	1692	1694	1595
Magnesium	ppm	499	497	517	569
Zinc	ppm	1046	1050	1113	1091
Phosphorus	ppm	920	918	927	974
Barium	ppm	0	0	<1	0
Boron	ppm	42	43	37	29

Depot: VOLVO9652
Unique No: 5747034
Signed: Wes Davis
Report Date: 14 Mar 2024

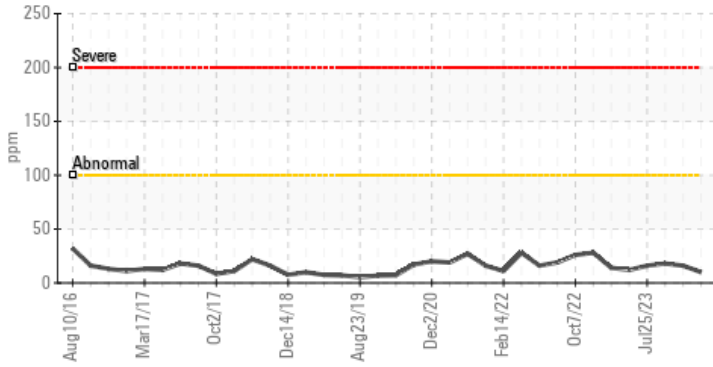


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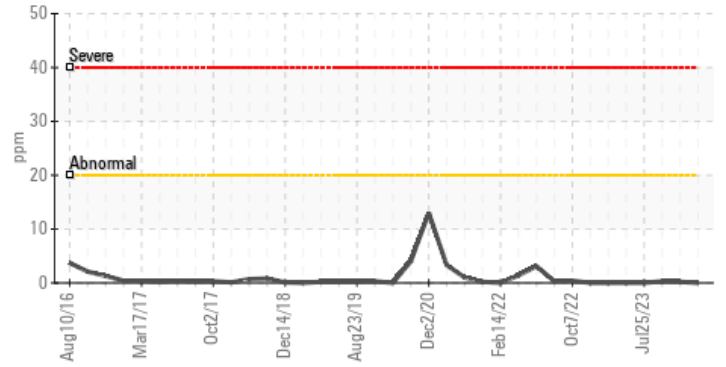


GRAPHS

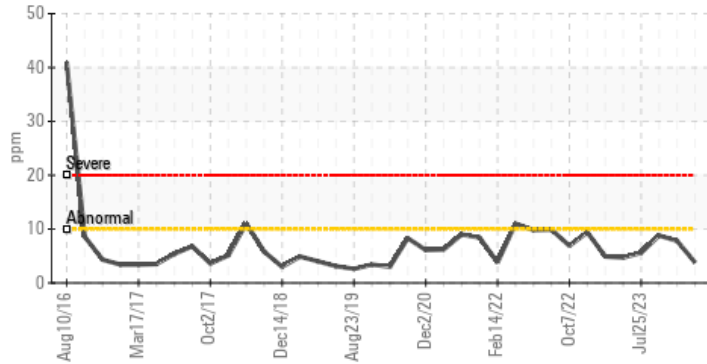
Iron (ppm)



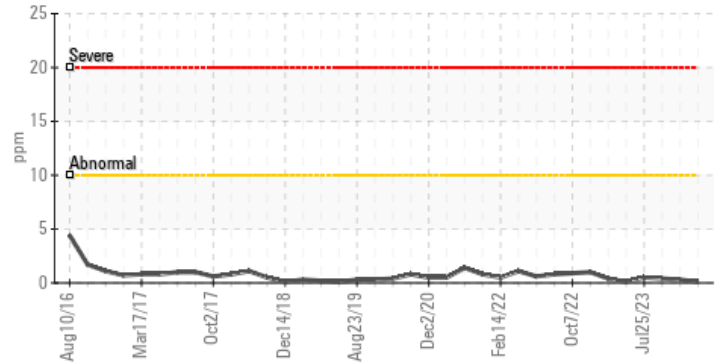
Lead (ppm)



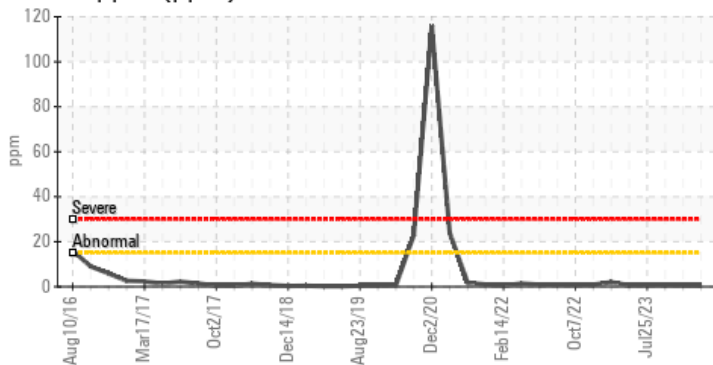
Aluminum (ppm)



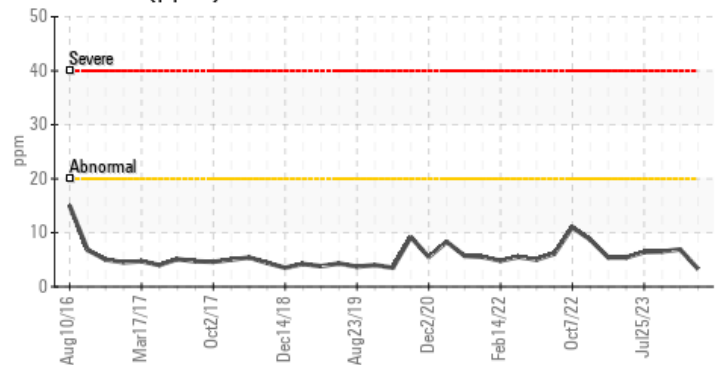
Chromium (ppm)



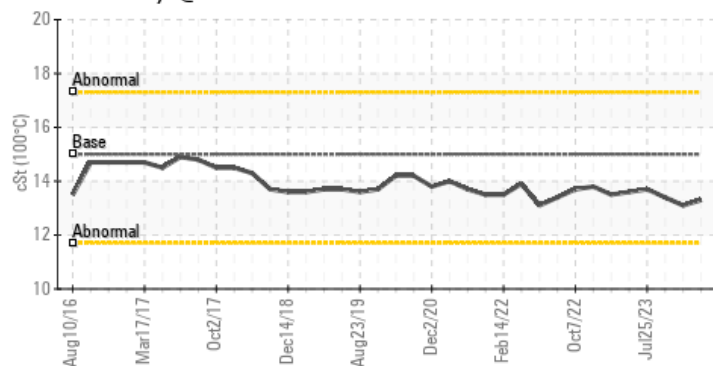
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

