



CONSTRUCTION EQUIPMENT

659541 SDLG L959F 640022 - TRANSMISSION (AUTO)



Sample No: VCP442541
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 659541



SAMPLE INFORMATION

Sample Number	VCP442541	VCP433328	VCP374620	VCP313594
Sample Date	10 Jan 2024	10 Oct 2023	14 Jun 2022	20 Oct 2021
Machine Hours	4533	3951	2074	1550
Oil Hours	500	1000	1500	1500
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	78.8	75.6	71.5	27.1
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	5	9	10
Sodium	ppm	5	7	12	10
Potassium	ppm	1	3	0	1

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The lead level has decreased, but is still abnormal. All other component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.



WEAR METALS

Iron	ppm	11	15	13	60
Copper	ppm	97	141	161	33
Lead	ppm	253	406	451	1
Tin	ppm	2	2	4	7
Aluminum	ppm	2	2	3	45
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	29	35	42	0
Nickel	ppm	0	0	<1	4
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	4	0
Manganese	ppm	2	4	6	3
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

Calcium	ppm	2114	2198	2523	127
Magnesium	ppm	297	279	244	8
Zinc	ppm	1147	1178	1025	21
Phosphorus	ppm	1054	1039	915	210
Barium	ppm	0	<1	0	1
Boron	ppm	184	223	297	75

Depot: VOLVO0093
Unique No: 10862393
Signed: Don Baldrige
Report Date: 07 Feb 2024

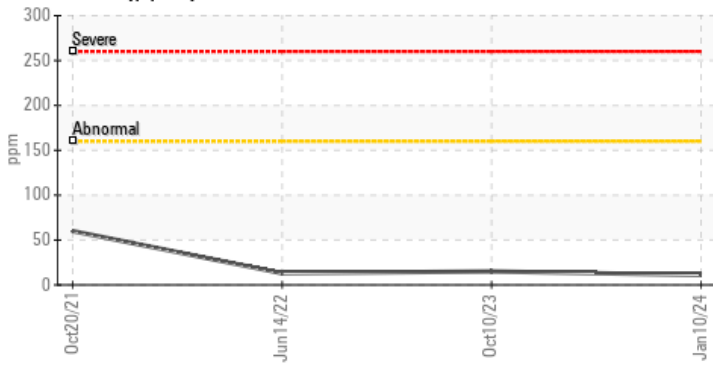


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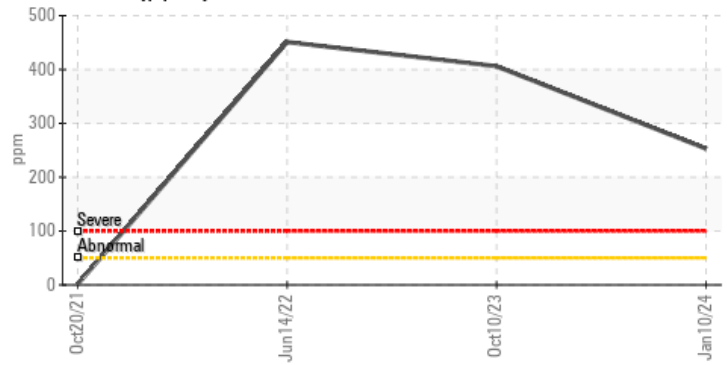


GRAPHS

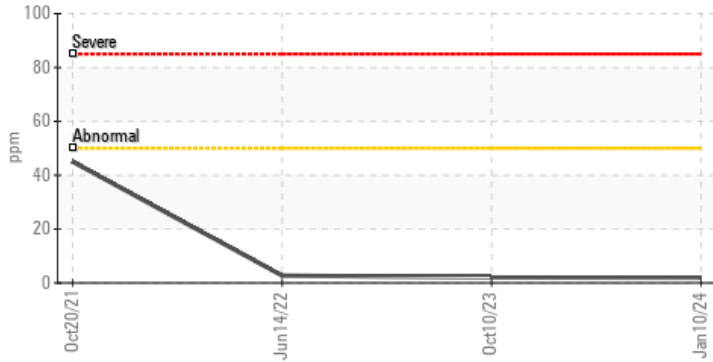
Iron (ppm)



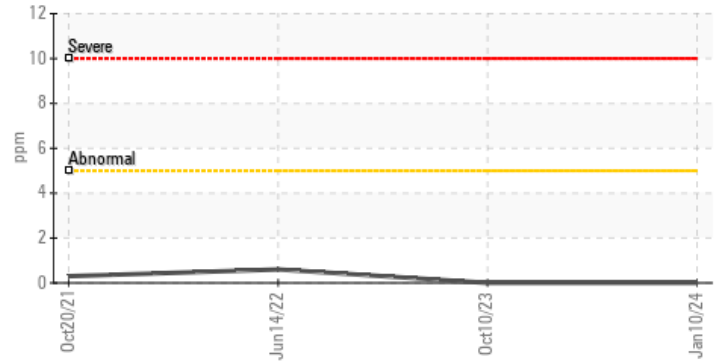
Lead (ppm)



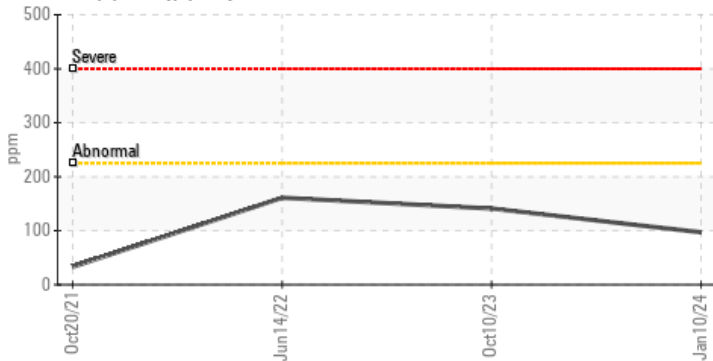
Aluminum (ppm)



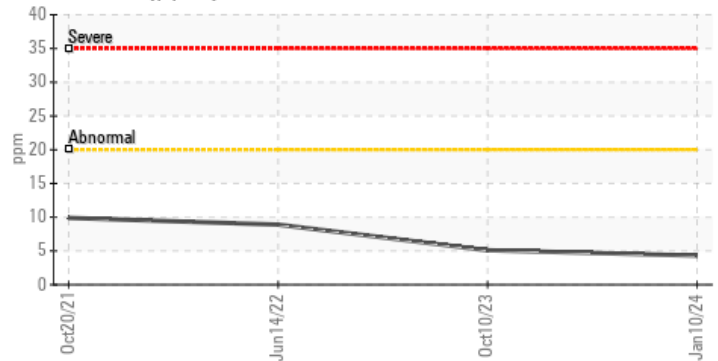
Chromium (ppm)



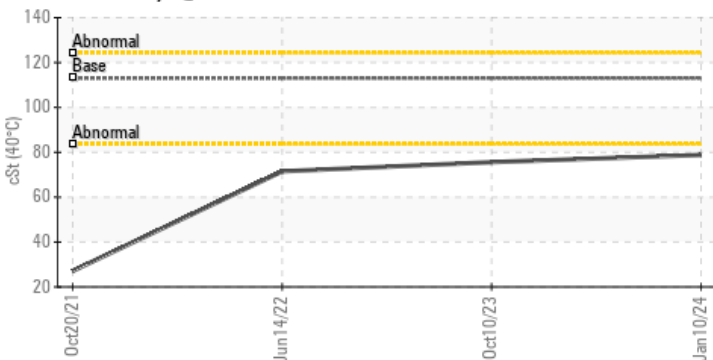
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

