



CONSTRUCTION EQUIPMENT

701512 STONE CO VOLVO L350H 1149 - DIESEL ENGINE



Sample No: VCP443769
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 701512 STONE CO



SAMPLE INFORMATION

Sample Number	VCP443769	VCP452291	VCP431521	VCP424550
Sample Date	17 Apr 2024	19 Dec 2023	11 Oct 2023	09 Aug 2023
Machine Hours	5290	4837	4362	3913
Oil Hours	500	0	450	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.1	13.6	13.9
Base Number (BN)	mg KOH/g	8.3	8.2	8.7	8.0
Oxidation (PA)	%	63	63	61	61

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.6	0.7	0.7
Nitration (PA)	%	70	72	68	73
Sulfation (PA)	%	57	57	56	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	3	4
Sodium	ppm	2	2	2	<1
Potassium	ppm	2	2	2	1



WEAR METALS

Iron	ppm	6	7	6	11
Copper	ppm	2	2	2	7
Lead	ppm	1	<1	<1	1
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	2	1	2	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	70	61	57	63
Nickel	ppm	1	<1	<1	3
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1189	1081	1060	1186
Magnesium	ppm	936	985	1026	1068
Zinc	ppm	1219	1288	1144	1384
Phosphorus	ppm	1028	1069	1028	1082
Barium	ppm	2	0	0	0
Boron	ppm	45	13	0	<1

Depot: VOLVO2990
Unique No: 10996687
Signed: Sean Felton
Report Date: 29 Apr 2024

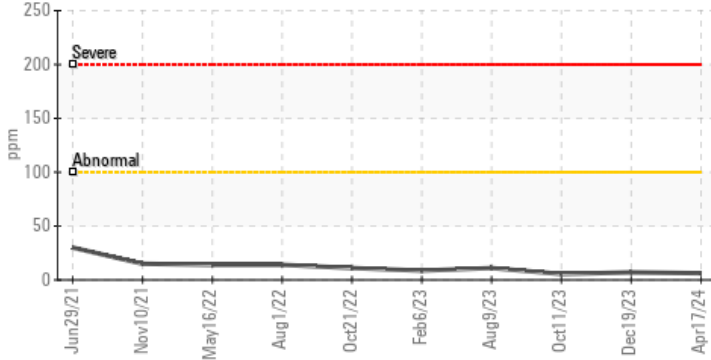


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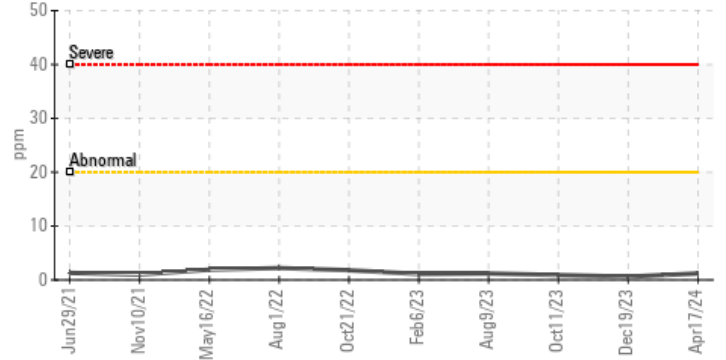


GRAPHS

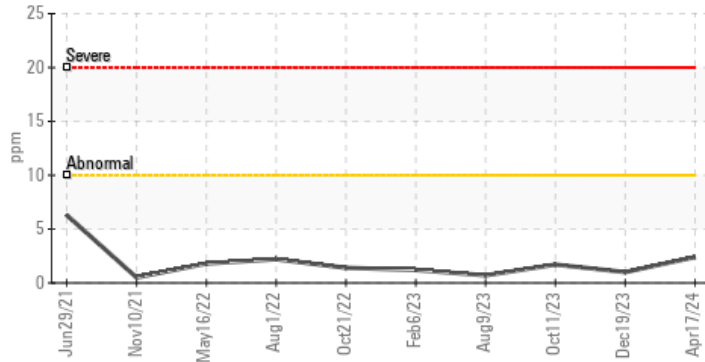
Iron (ppm)



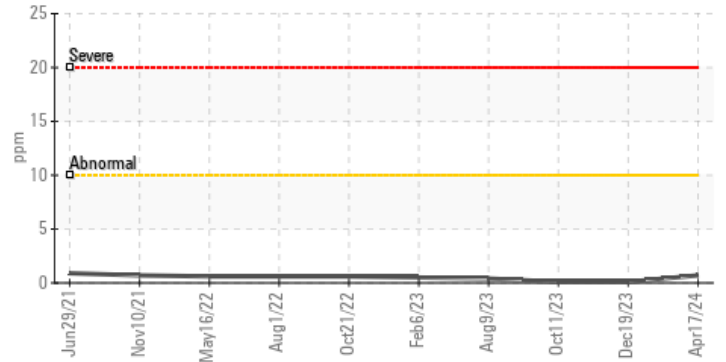
Lead (ppm)



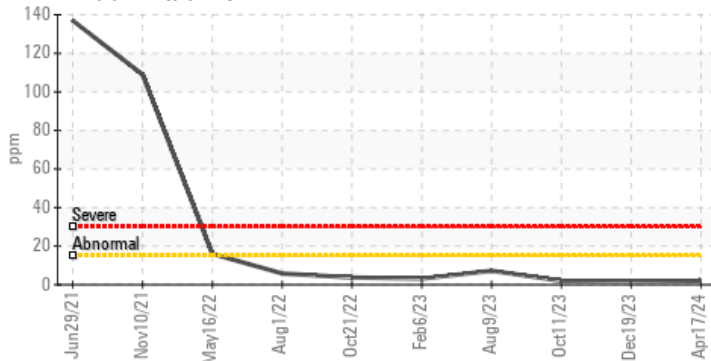
Aluminum (ppm)



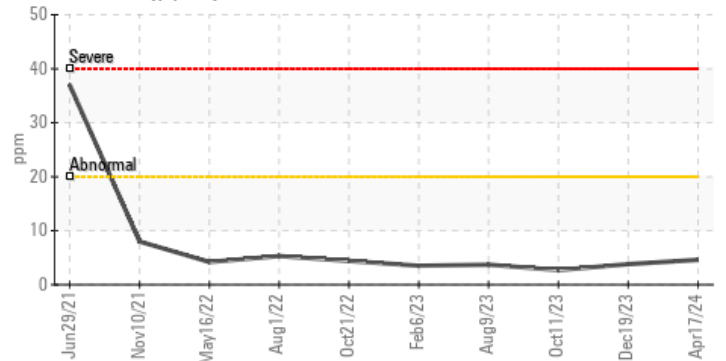
Chromium (ppm)



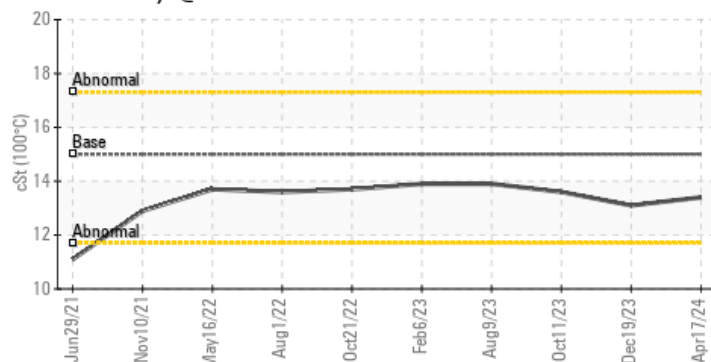
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

