



CONSTRUCTION EQUIPMENT

SPM701872 VOLVO L350H 1011 - DIESEL ENGINE



Sample No: VCP427273
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM701872



SAMPLE INFORMATION

Sample Number	VCP427273	VCP405738	VCP397507	VCP365354
Sample Date	15 Apr 2024	18 May 2023	22 Feb 2023	30 Jul 2022
Machine Hours	9455	6873	6207	5213
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT CO - ORLAND PARK
 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: DAVE ENG
 DAVE.ENG@ALTG.COM
 T: (312)350-2560
 F:



OIL CONDITION

Visc @ 100°C	cSt	13.5	14.2	13.7	13.4
Base Number (BN)	mg KOH/g	6.2	7.9	11.1	11.5
Oxidation (PA)	%	55	64	73	86

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 %	%	0.2	0.6	0.1	0.4
Nitration (PA)	%	72	79	58	62
Sulfation (PA)	%	51	57	58	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	17	4
Sodium	ppm	2	1	0	3
Potassium	ppm	<1	2	3	2



WEAR METALS

Iron	ppm	2	12	13	7
Copper	ppm	0	2	4	7
Lead	ppm	0	2	<1	2
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	2	4	4
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	91	64	42	41
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	2358	1258	1601	1700
Magnesium	ppm	71	952	558	516
Zinc	ppm	1325	1291	1043	1162
Phosphorus	ppm	1090	1051	915	964
Barium	ppm	0	0	<1	0
Boron	ppm	50	4	66	59

Depot: VOLVO8885
Unique No: 10995442
Signed: Wes Davis
Report Date: 25 Apr 2024

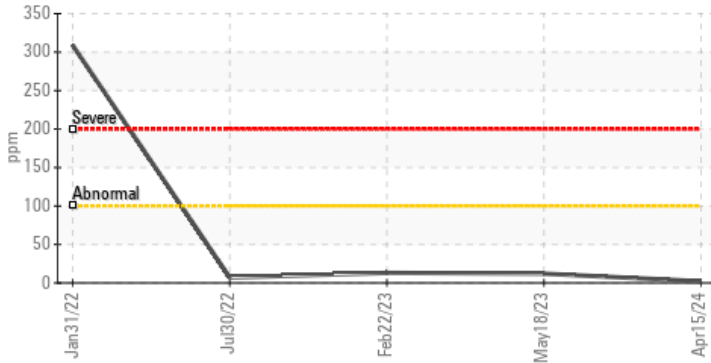


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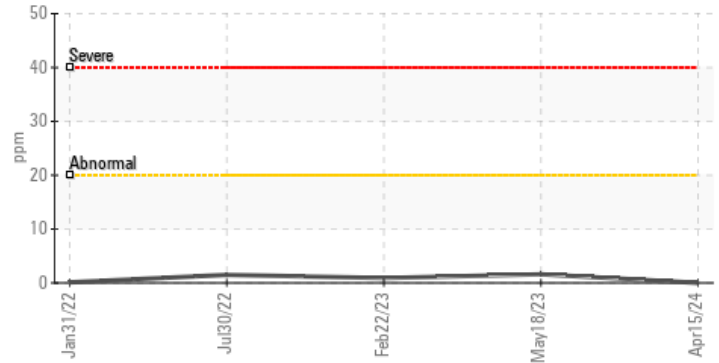


GRAPHS

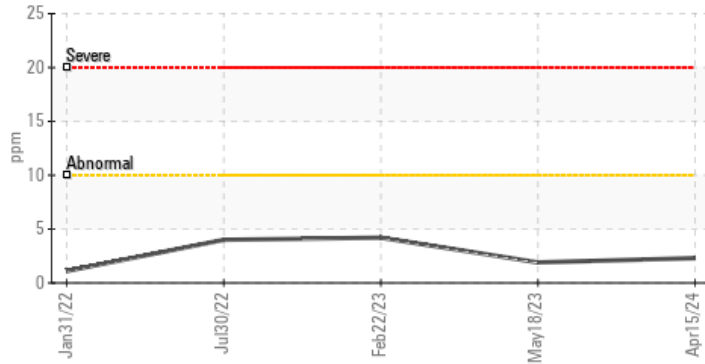
Iron (ppm)



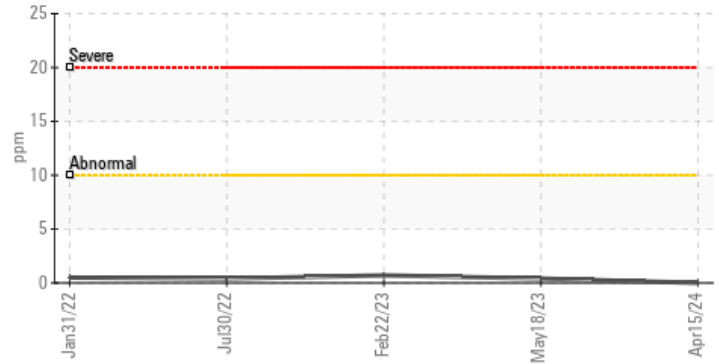
Lead (ppm)



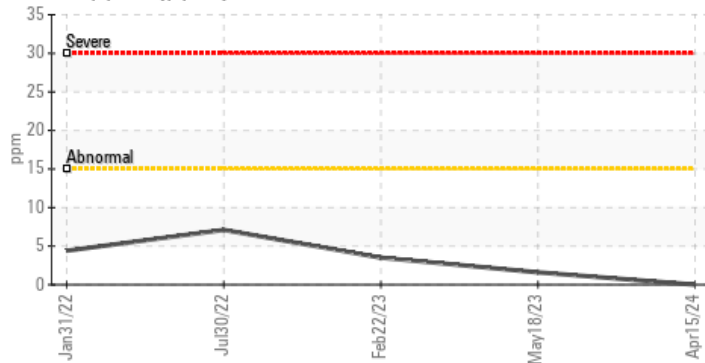
Aluminum (ppm)



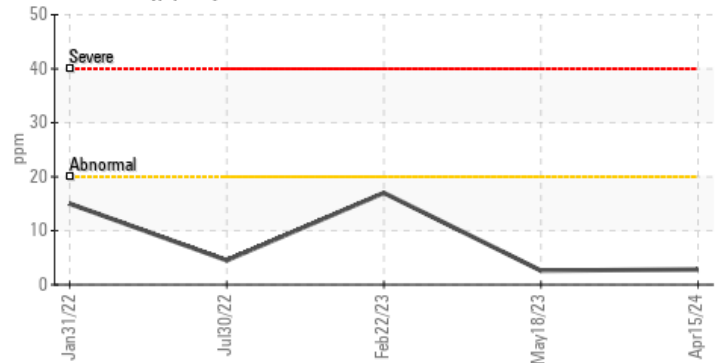
Chromium (ppm)



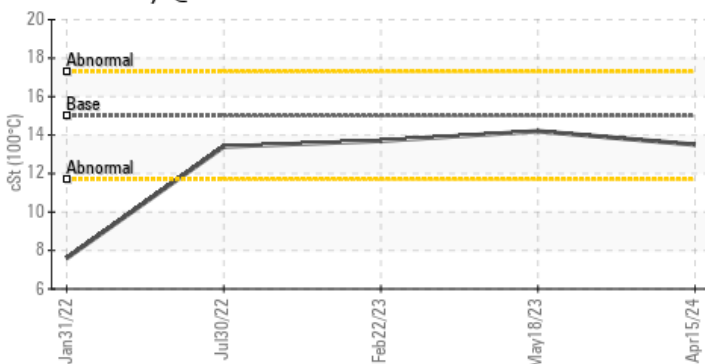
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

