



CONSTRUCTION EQUIPMENT

SWA540568 MULCH CTR VOLVO L90D 64482 - DIESEL ENGINE



Sample No: VCP339970
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No: SWA540568 MULCH CTR



SAMPLE INFORMATION

Sample Number	VCP339970	VCP339956	---	---
Sample Date	19 Apr 2024	30 Oct 2023	---	---
Machine Hours	26764	26602	---	---
Oil Hours	142	2	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	SEVERE	ABNORMAL	---	---

ALTA EQUIPMENT

420 NOLEN DRIVE
 SOUTH ELGIN, IL
 US 60177
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 F:



OIL CONDITION

Visc @ 100°C	cSt	▲ 6.8	■ 13.6	---	---
Base Number (BN)	mg KOH/g	■ 7.6	■ 9.2	---	---
Oxidation (PA)	%	55	73	---	---

Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.2	■ 0.2	---	---
Nitration (PA)	%	66	64	---	---
Sulfation (PA)	%	48	59	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	▲ 30.3	<1.0	---	---
Silicon	ppm	■ 25	▲ 137	---	---
Sodium	ppm	■ 5	■ 2	---	---
Potassium	ppm	■ 8	■ 5	---	---



WEAR METALS

Iron	ppm	■ 13	■ 16	---	---
Copper	ppm	■ 3	■ 14	---	---
Lead	ppm	■ 2	■ 5	---	---
Tin	ppm	■ 5	■ 4	---	---
Aluminum	ppm	■ 2	■ 2	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 42	■ 47	---	---
Nickel	ppm	■ 0	■ 1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	■ 0	■ <1	---	---
Manganese	ppm	■ <1	■ <1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	■ 1189	■ 1542	---	---
Magnesium	ppm	369	■ 634	---	---
Zinc	ppm	655	■ 964	---	---
Phosphorus	ppm	578	■ 748	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 55	■ 79	---	---

Depot: ALTSPR
Unique No: 10992765
Signed: Jonathan Hester
Report Date: 25 Apr 2024

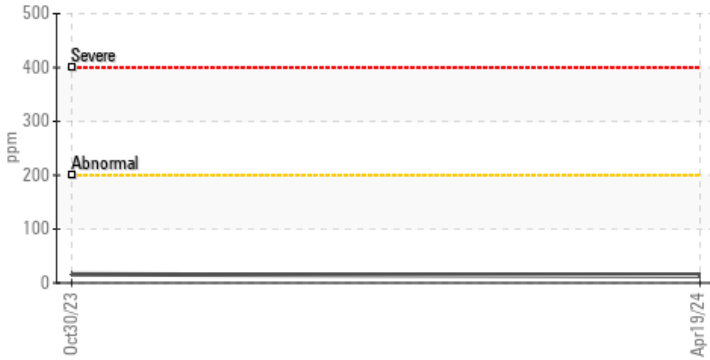


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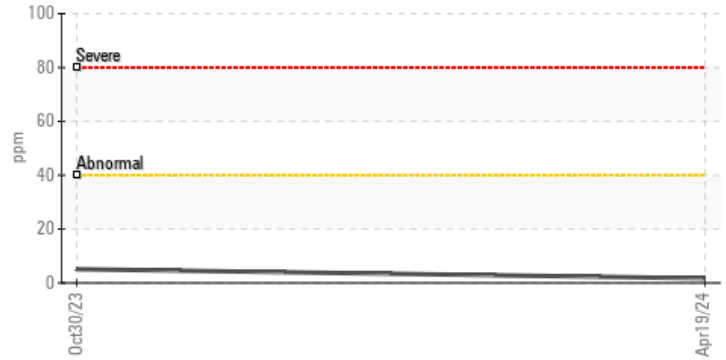


GRAPHS

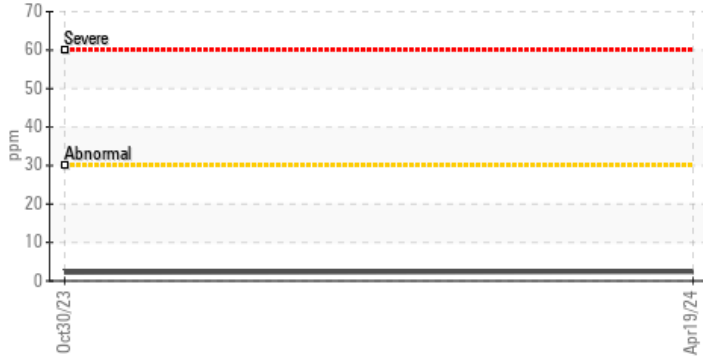
Iron (ppm)



Lead (ppm)



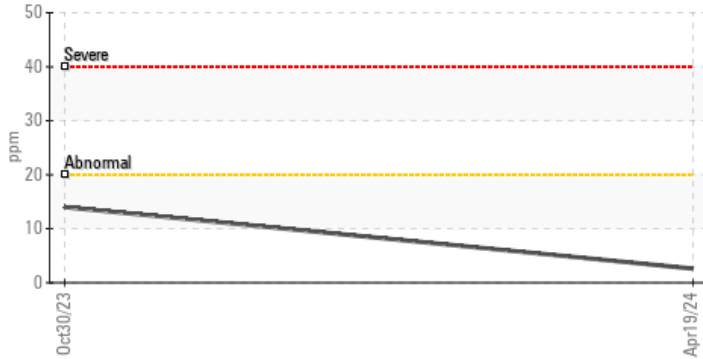
Aluminum (ppm)



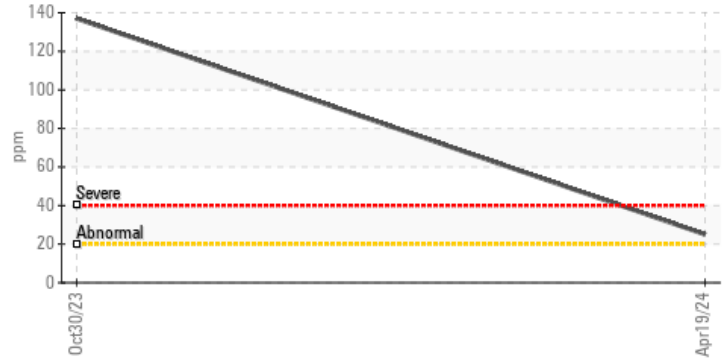
Chromium (ppm)



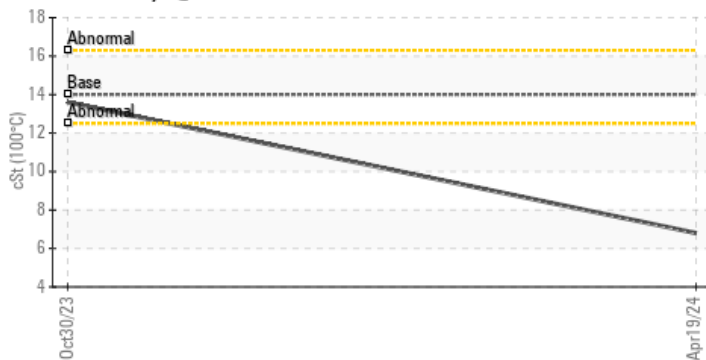
Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

