



CONSTRUCTION EQUIPMENT

25898 VOLVO SD115 236161 - DIESEL ENGINE



Sample No: VCP453801
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25898



SAMPLE INFORMATION

Sample Number	VCP453801	VCP363506	---	---
Sample Date	12 Jun 2024	03 Oct 2022	---	---
Machine Hours	3479	2862	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.2	█ 13.0	---	---
Base Number (BN)	mg KOH/g	█ 8.2	█ 9.8	---	---
Oxidation (PA)	%	94	88	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. The aluminum level is abnormal. 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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.6	█ 0.7	---	---
Nitration (PA)	%	107	103	---	---
Sulfation (PA)	%	63	65	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 13	█ 11	---	---
Sodium	ppm	█ 1	█ <1	---	---
Potassium	ppm	█ 4	█ 4	---	---



WEAR METALS

Iron	ppm	▲ 124	█ 96	---	---
Copper	ppm	█ 4	█ 4	---	---
Lead	ppm	█ <1	█ 0	---	---
Tin	ppm	█ 2	█ 2	---	---
Aluminum	ppm	▲ 58	█ 34	---	---
Chromium	ppm	█ 8	█ 5	---	---
Molybdenum	ppm	█ 59	█ 77	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 1	█ 1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	█ 1805	█ 1650	---	---
Magnesium	ppm	█ 574	█ 586	---	---
Zinc	ppm	█ 1259	█ 1185	---	---
Phosphorus	ppm	█ 978	█ 952	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 25	█ 70	---	---

Depot: VOLVO3387
Unique No: 11089405
Signed: Sean Felton
Report Date: 24 Jun 2024

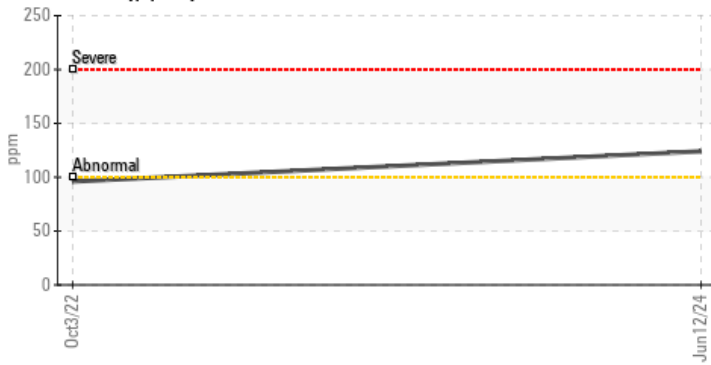


CONSTRUCTION EQUIPMENT



GRAPHS

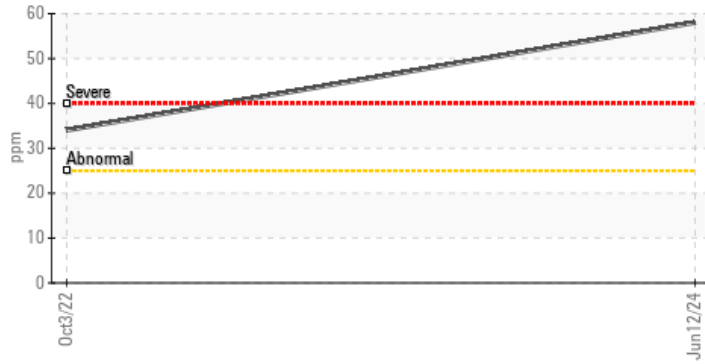
▲ Iron (ppm)



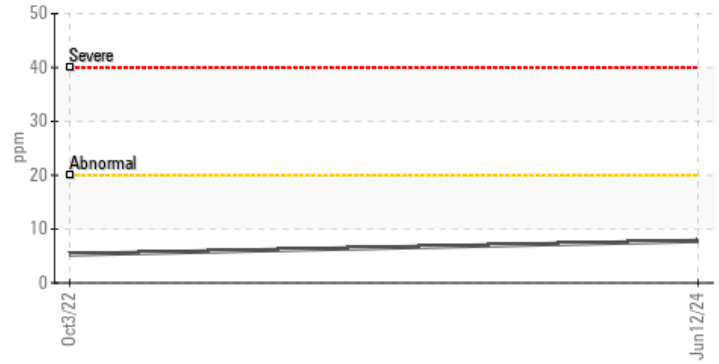
Lead (ppm)



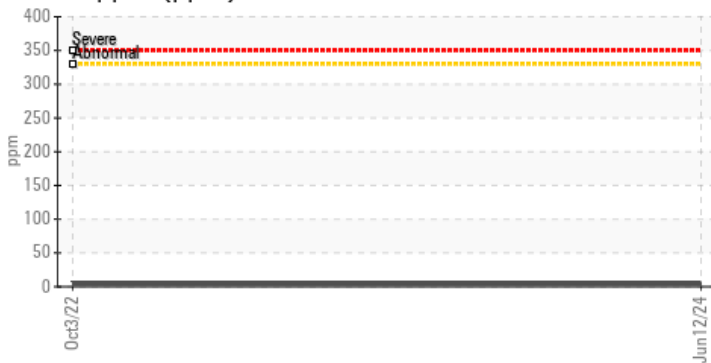
▲ Aluminum (ppm)



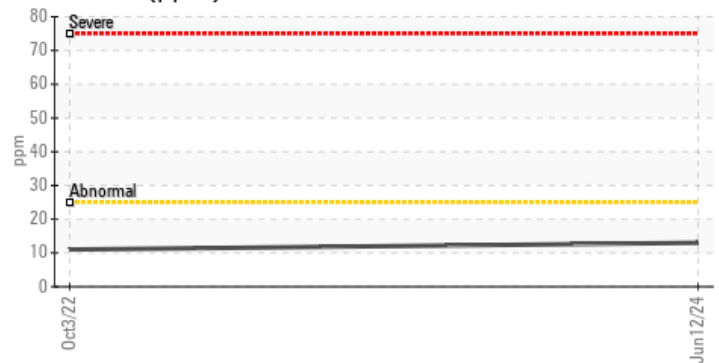
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

