



CONSTRUCTION EQUIPMENT

688272 ATLAS ORGANIC VOLVO L120H 632550 - DIESEL ENGINE



Sample No: VCP455025
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 688272 ATLAS ORGANIC



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SAMPLE INFORMATION

Sample Number	VCP455025	VCP417617	---	---
Sample Date	18 Mar 2024	30 Jun 2023	---	---
Machine Hours	8704	7690	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	█ 14.1	---	---
Base Number (BN)	mg KOH/g	█ 9.0	█ 7.6	---	---
Oxidation (PA)	%	55	69	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.8	---	---
Nitration (PA)	%	48	66	---	---
Sulfation (PA)	%	50	63	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 14	█ 6	---	---
Sodium	ppm	█ 0	█ 4	---	---
Potassium	ppm	█ 4	█ 4	---	---



WEAR METALS

Iron	ppm	█ 16	█ 24	---	---
Copper	ppm	█ 14	█ 7	---	---
Lead	ppm	█ 7	█ <1	---	---
Tin	ppm	█ 4	█ 1	---	---
Aluminum	ppm	█ 7	█ 6	---	---
Chromium	ppm	█ 2	█ 1	---	---
Molybdenum	ppm	█ 60	█ 82	---	---
Nickel	ppm	█ 1	█ <1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 1	█ 0	---	---
Manganese	ppm	█ 3	█ <1	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	█ 1118	█ 1557	---	---
Magnesium	ppm	█ 1045	█ 395	---	---
Zinc	ppm	█ 1293	█ 1302	---	---
Phosphorus	ppm	█ 1289	█ 1034	---	---
Barium	ppm	█ 10	█ <1	---	---
Boron	ppm	█ 8	257	---	---

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.

Depot: VOLVO0096
Unique No: 10941019
Signed: Sean Felton
Report Date: 26 Mar 2024

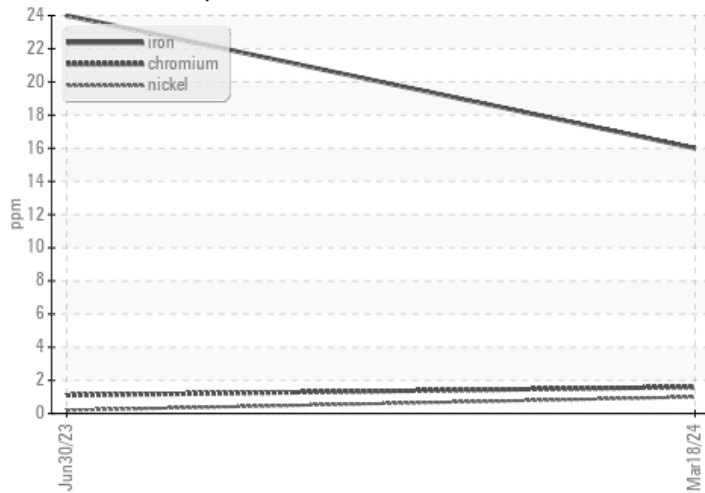


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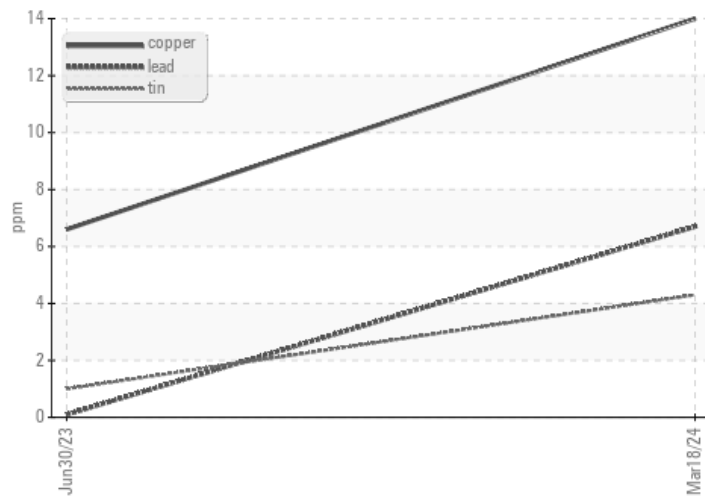


GRAPHS

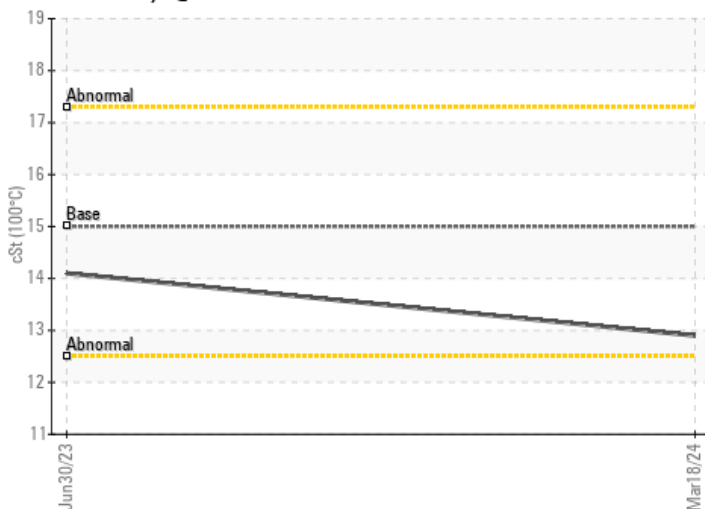
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

