



CONSTRUCTION EQUIPMENT

VOLVO L220ELR 314360 - DIESEL ENGINE



Sample No: VCP0008473
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP0008473	VCP332963	---	---
Sample Date	27 Jun 2024	05 May 2022	---	---
Machine Hours	1360	1346	---	---
Oil Hours	14	500	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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 8750 PHILIPS HWY
 JACKSONVILLE, FL
 US 32256
 Contact: SHAWN NORTHCRAFT
 shawn.northcraft@altg.com
 T: (904)737-6000
 F: (904)737-1260



OIL CONDITION

Visc @ 100°C	cSt	12.4	13.5	---	---
Base Number (BN)	mg KOH/g	10.4	10.3	---	---
Oxidation (PA)	%	71	82	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.2	---	---
Nitration (PA)	%	42	77	---	---
Sulfation (PA)	%	57	63	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	10	7	---	---
Sodium	ppm	2	2	---	---
Potassium	ppm	1	2	---	---



WEAR METALS

Iron	ppm	10	18	---	---
Copper	ppm	<1	2	---	---
Lead	ppm	0	2	---	---
Tin	ppm	0	1	---	---
Aluminum	ppm	2	3	---	---
Chromium	ppm	<1	1	---	---
Molybdenum	ppm	43	31	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	21	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	1506	1890	---	---
Magnesium	ppm	459	477	---	---
Zinc	ppm	1052	1266	---	---
Phosphorus	ppm	888	1035	---	---
Barium	ppm	0	0	---	---
Boron	ppm	75	53	---	---

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: VOLVO0092
Unique No: 11110478
Signed: Wes Davis
Report Date: 03 Jul 2024

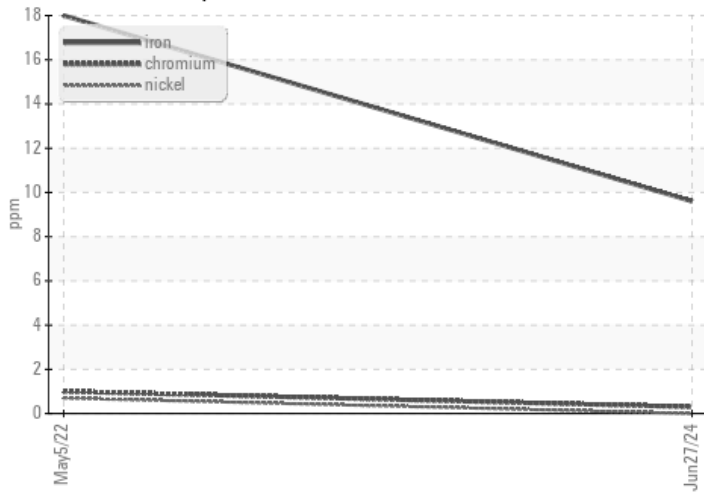


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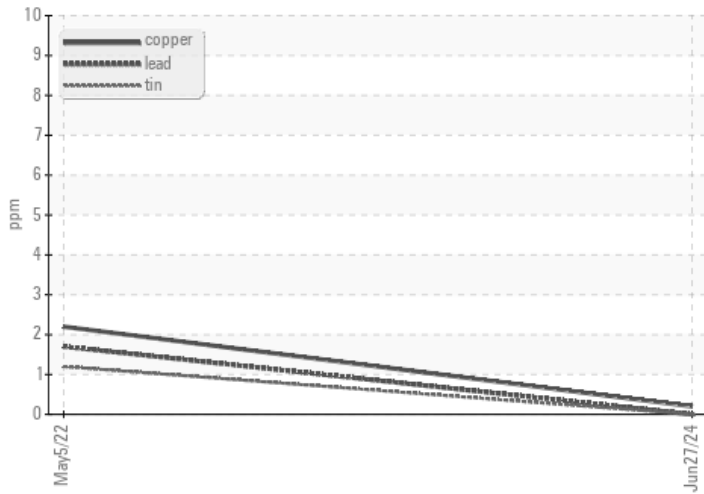


GRAPHS

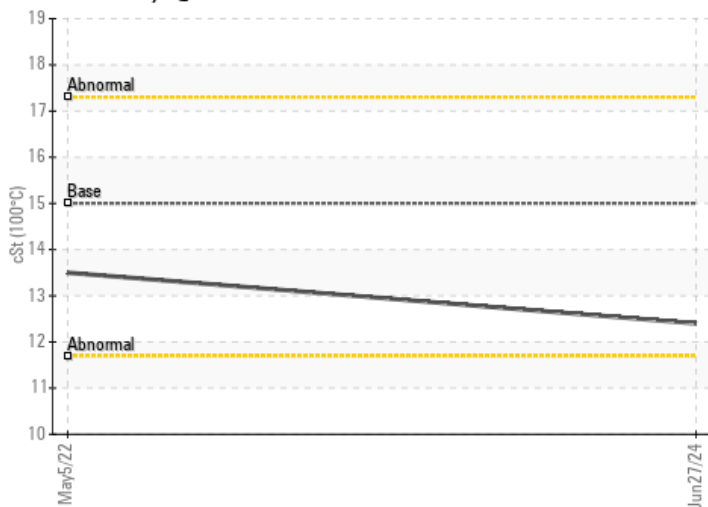
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

