



CONSTRUCTION EQUIPMENT

VOLVO A45G 342577 - DIESEL ENGINE



Sample No: VCP423884
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP423884	VCP415700	---	---
Sample Date	14 Jun 2024	12 Jun 2023	---	---
Machine Hours	5306	3914	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

117 - ASCENDUM MACHINERY INC - GREENVILLE
 2002 N GREENE ST
 GREENVILLE, NC
 US 27834
 Contact: ALLEN WILLIAMS
 allen.williams@ascendummachinery.com
 T:
 F: (704)494-8197



OIL CONDITION

Visc @ 100°C	cSt	12.4	13.1	---	---
Base Number (BN)	mg KOH/g	7.0	6.9	---	---
Oxidation (PA)	%	73	91	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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	---	---
Soot %	%	0.3	0.8	---	---
Nitration (PA)	%	78	91	---	---
Sulfation (PA)	%	63	67	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	0.3	<1.0	---	---
Silicon	ppm	6	6	---	---
Sodium	ppm	12	1	---	---
Potassium	ppm	2	1	---	---



WEAR METALS

Iron	ppm	9	25	---	---
Copper	ppm	2	21	---	---
Lead	ppm	2	2	---	---
Tin	ppm	<1	2	---	---
Aluminum	ppm	4	2	---	---
Chromium	ppm	<1	1	---	---
Molybdenum	ppm	78	40	---	---
Nickel	ppm	5	2	---	---
Titanium	ppm	4	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1647	1633	---	---
Magnesium	ppm	431	489	---	---
Zinc	ppm	1327	1094	---	---
Phosphorus	ppm	1147	813	---	---
Barium	ppm	0	0	---	---
Boron	ppm	221	14	---	---

Depot: VOLVO8769
Unique No: 11111711
Signed: Jonathan Hester
Report Date: 09 Jul 2024

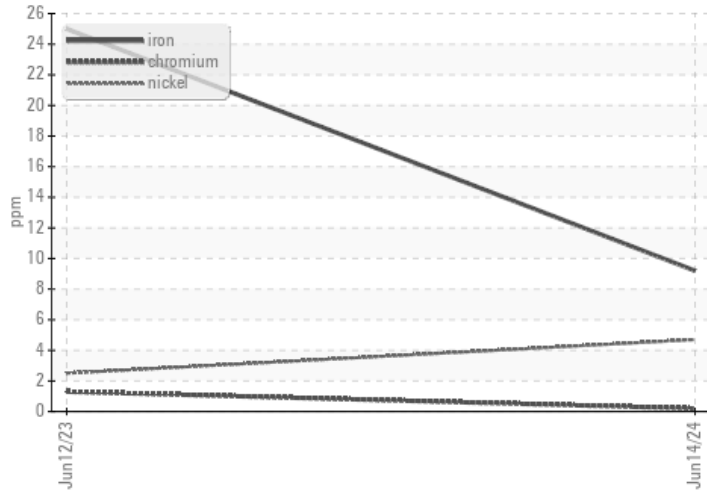


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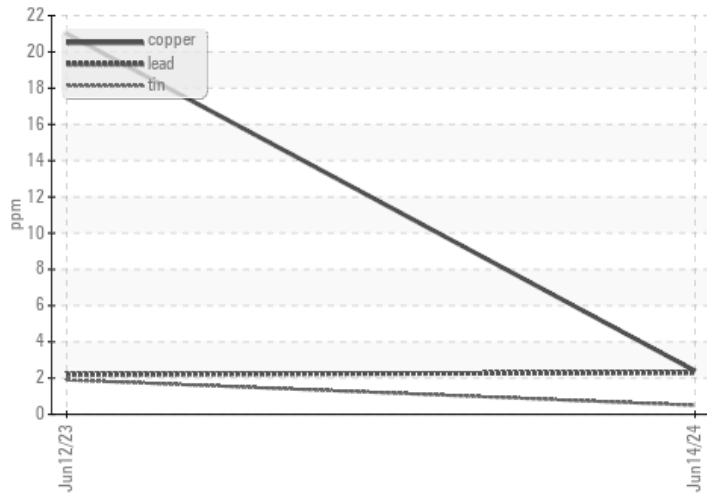


GRAPHS

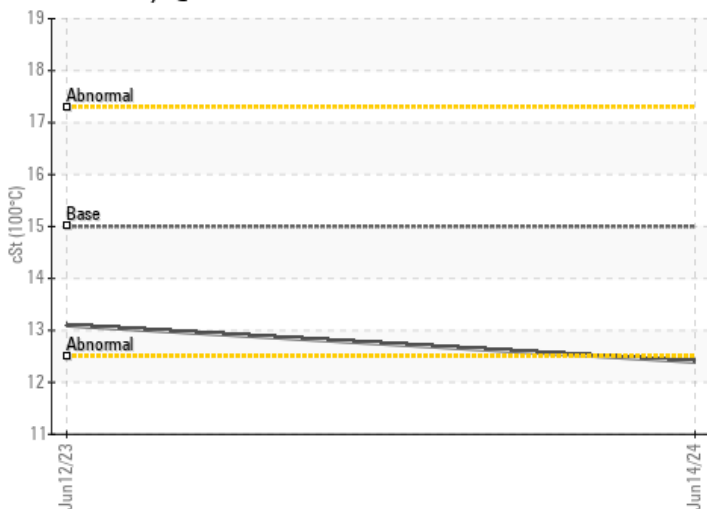
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

