



CONSTRUCTION EQUIPMENT

W07013269-2 VOLVO EC160E 310504 - DIESEL ENGINE



Sample No: VCP387852
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: W07013269-2



McClung-Logan Virginia LLC- RICHMOND
 1345 MOUNTAIN ROAD
 GLEN ALLEN, VA
 US 23060
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SAMPLE INFORMATION

Sample Number	VCP387852	VCP318665	VCP263312	---
Sample Date	18 Aug 2023	20 Jul 2021	09 Jan 2020	---
Machine Hours	3609	1850	570	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

OIL CONDITION

Visc @ 100°C	cSt	13.4	14.5	13.5	---
Base Number (BN)	mg KOH/g	8.2	---	---	---
Oxidation (PA)	%	87	64	58	---

CONTAMINATION

Soot %	%	1.2	0.1	0.2	---
Nitration (PA)	%	73	56	54	---
Sulfation (PA)	%	67	60	50	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	7	4	24	---
Sodium	ppm	15	4	5	---
Potassium	ppm	3	1	6	---

WEAR METALS

Iron	ppm	19	6	47	---
Copper	ppm	4	<1	12	---
Lead	ppm	1	0	<1	---
Tin	ppm	1	<1	3	---
Aluminum	ppm	2	0	22	---
Chromium	ppm	<1	<1	4	---
Molybdenum	ppm	43	85	2	---
Nickel	ppm	4	<1	8	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	<1	0	---
Manganese	ppm	<1	<1	5	---
Vanadium	ppm	<1	<1	0	---

ADDITIVES

Calcium	ppm	1832	1526	2421	---
Magnesium	ppm	528	457	71	---
Zinc	ppm	1160	947	1116	---
Phosphorus	ppm	903	869	879	---
Barium	ppm	0	0	0	---
Boron	ppm	22	307	8	---

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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: VOLVO8882
Unique No: 10616597
Signed: Wes Davis
Report Date: 23 Aug 2023

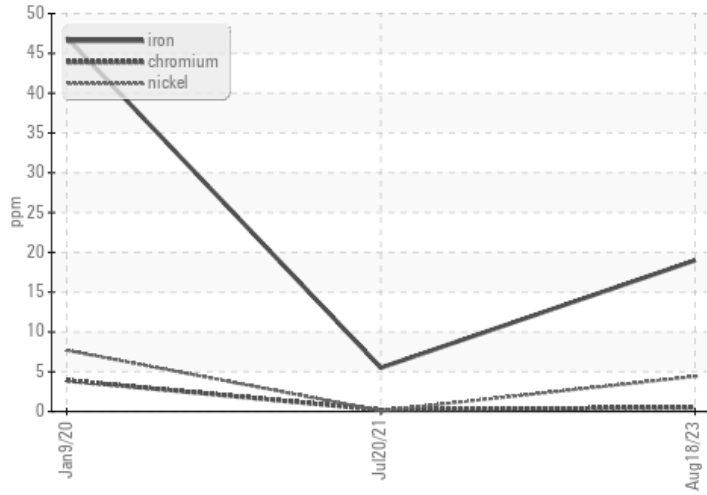


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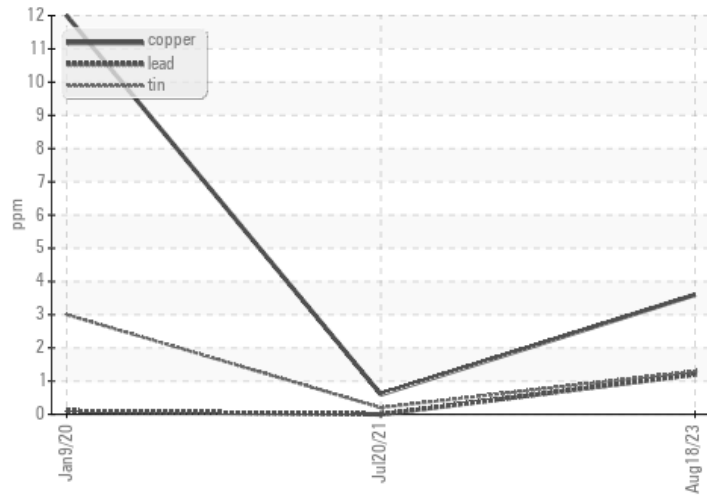


GRAPHS

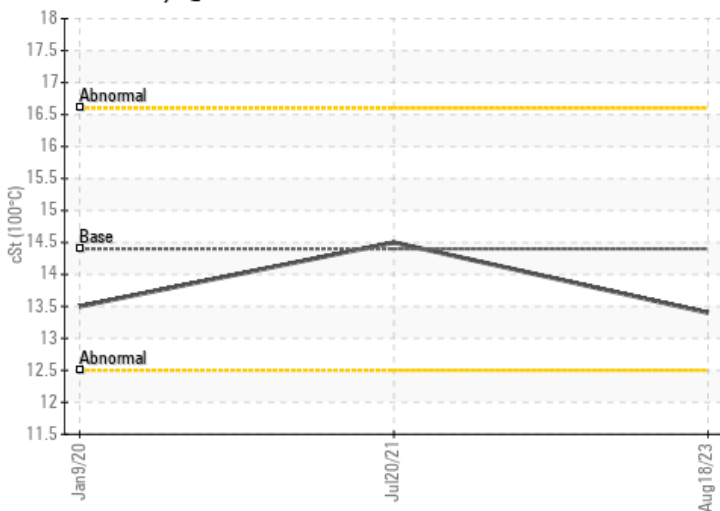
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

