



CONSTRUCTION EQUIPMENT

SWA568842 AVANT 860 115761 - DIESEL ENGINE



Sample No: VCP449524
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWA568842



SAMPLE INFORMATION

Sample Number	VCP449524	VCP412126	---	---
Sample Date	28 May 2024	17 Aug 2023	---	---
Machine Hours	431	70	---	---
Oil Hours	0	70	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ATTENTION	---	---

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 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302

OIL CONDITION

Visc @ 100°C	cSt	12.3	11.5	---	---
Base Number (BN)	mg KOH/g	9.8	10.4	---	---
Oxidation (PA)	%	76	80	---	---

CONTAMINATION

Water	%	0.231	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	53	71	---	---
Sulfation (PA)	%	57	56	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.6	---	---
Silicon	ppm	9	17	---	---
Sodium	ppm	4	5	---	---
Potassium	ppm	2	<1	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

WEAR METALS

Iron	ppm	13	12	---	---
Copper	ppm	2	11	---	---
Lead	ppm	<1	0	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	2	2	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	46	44	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	6	---	---
Vanadium	ppm	<1	<1	---	---

ADDITIVES

Calcium	ppm	1652	1396	---	---
Magnesium	ppm	483	825	---	---
Zinc	ppm	1126	845	---	---
Phosphorus	ppm	986	719	---	---
Barium	ppm	0	4	---	---
Boron	ppm	67	128	---	---

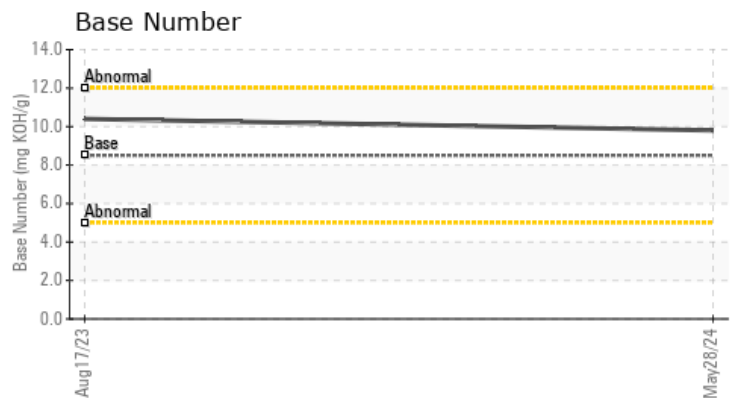
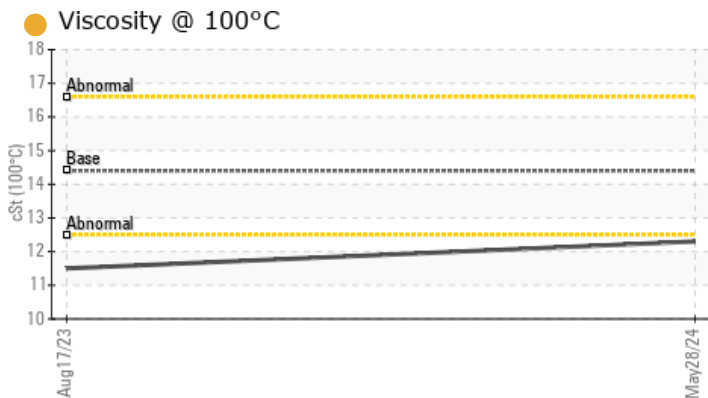
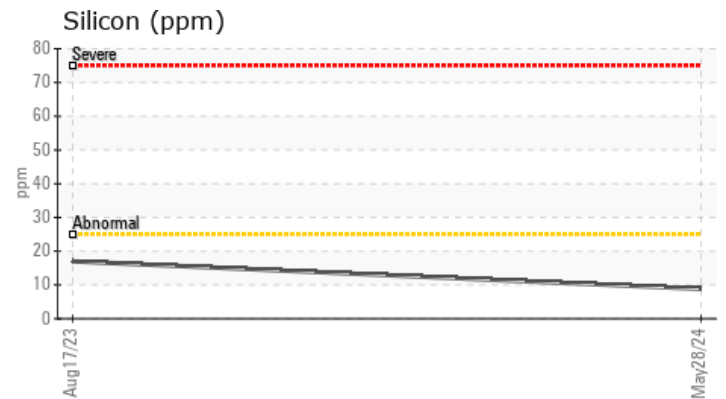
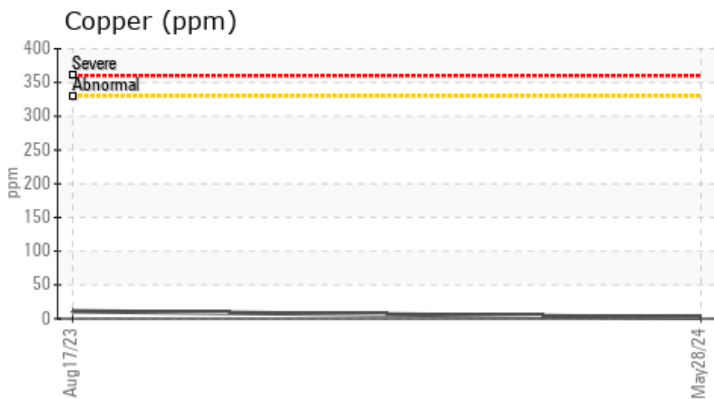
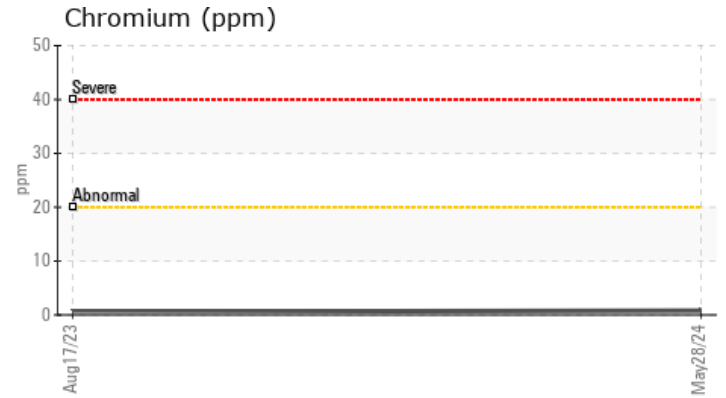
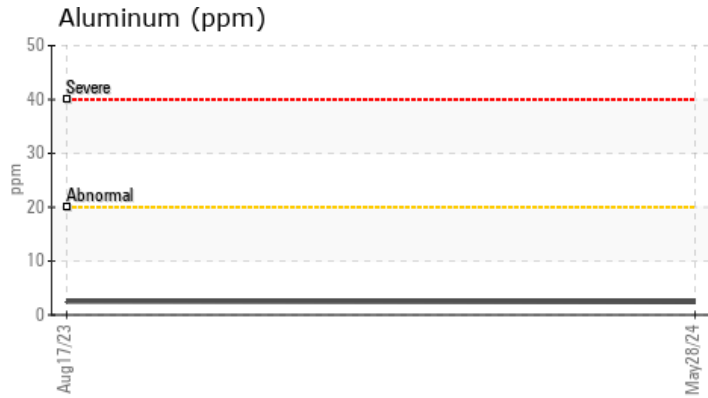
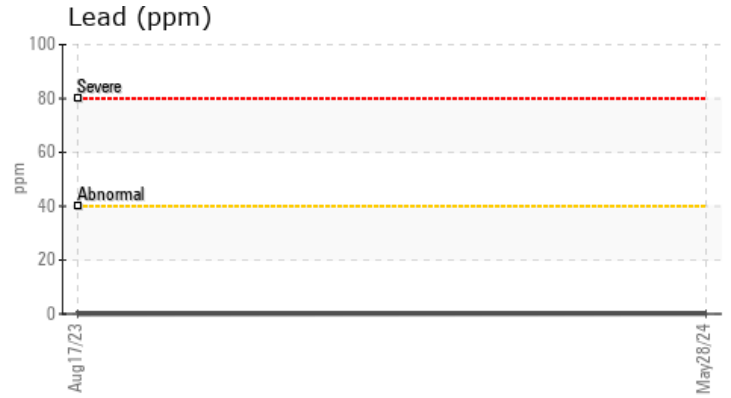
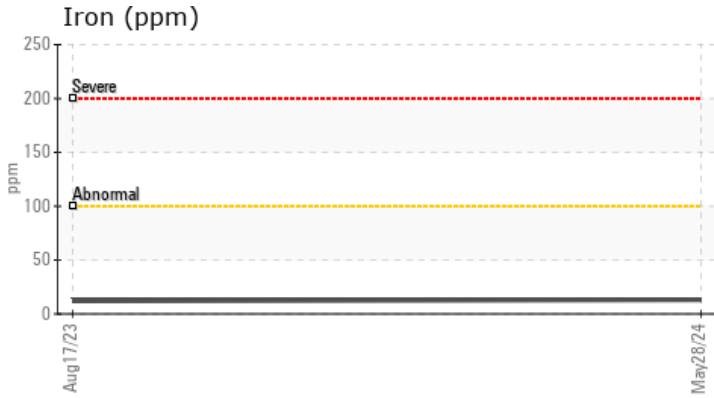
Depot: VOLVO0090
Unique No: 11059529
Signed: Jonathan Hester
Report Date: 07 Jun 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SWA338984 AVANT 115761 - HYDRAULIC SYSTEM



Sample No: VCP412122
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWA338984



SAMPLE INFORMATION

Sample Number	VCP412122	---	---	---
Sample Date	17 Aug 2023	---	---	---
Machine Hours	70	---	---	---
Oil Hours	70	---	---	---
Oil Changed	Not Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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 US 33905
 Contact: TODD LARK
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OIL CONDITION

Visc @ 40°C	cSt	█ 42.6	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.50	---	---	---



CONTAMINATION

Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ 0	---	---	---



WEAR METALS

Iron	ppm	█ 6	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 50	---	---	---
Magnesium	ppm	█ 1	---	---	---
Zinc	ppm	█ 417	---	---	---
Phosphorus	ppm	█ 331	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: VOLVO0090
Unique No: 10616075
Signed: Don Baldrige
Report Date: 23 Aug 2023

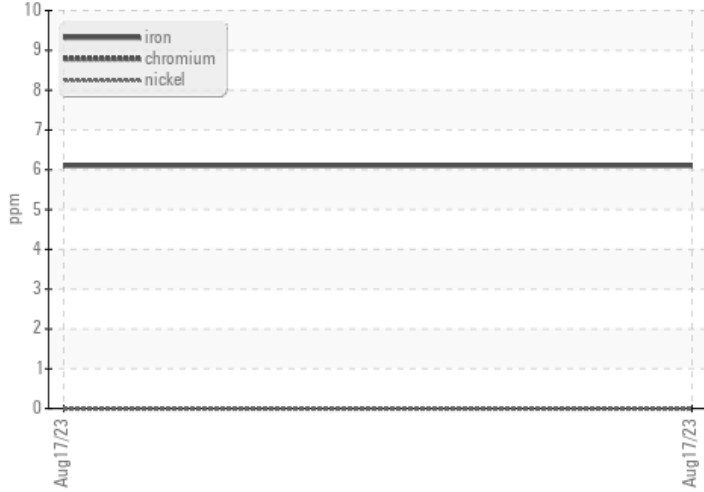


CONSTRUCTION EQUIPMENT

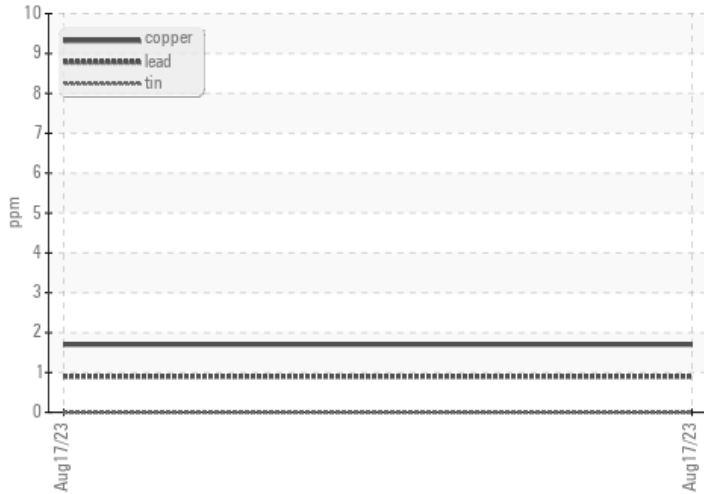


GRAPHS

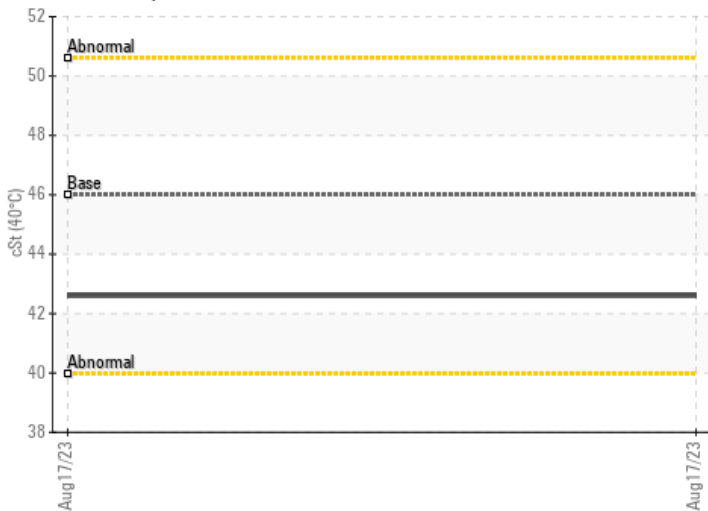
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

