CONSTRUCTION EQUIPMENT
26042 VOLVO L90 626664 - DIESEL ENGINE

Sample No: VCP436657
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 26042

218 - ASCENDUM MACHINERY INC - N. CHARLESTON
7235 CROSS COUNTRY RD.
NORTH CHARLESTON, SC
US 29418
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SAMPLE INFORMATION

Sample Number		**VCP436657**	VCP435066	---	---
Sample Date		**11 Jul 2024**	04 Oct 2023	---	---
Machine Hours		**2675**	1061	---	---
Oil Hours		**0**	1000	---	---
Oil Changed		**Changed**	Changed	---	---
Sample Status		**NORMAL**	ABNORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	**13.2**	12.9	---	---
Base Number (BN)	mg KOH/g	**9.0**	8.8	---	---
Oxidation (PA)	%	**86**	78	---	---

CONTAMINATION

Water	%	**NEG**	NEG	---	---
Soot %	%	**0.7**	0.5	---	---
Nitration (PA)	%	**83**	69	---	---
Sulfation (PA)	%	**62**	60	---	---
Glycol	%	**NEG**	NEG	---	---
Fuel	%	**<1.0**	<1.0	---	---
Silicon	ppm	**8**	▲ 20	---	---
Sodium	ppm	**4**	4	---	---
Potassium	ppm	**<1**	0	---	---

WEAR METALS

Iron	ppm	**30**	43	---	---
Copper	ppm	**4**	11	---	---
Lead	ppm	**0**	2	---	---
Tin	ppm	**<1**	3	---	---
Aluminum	ppm	**11**	▲ 37	---	---
Chromium	ppm	**3**	8	---	---
Molybdenum	ppm	**42**	41	---	---
Nickel	ppm	**0**	0	---	---
Titanium	ppm	**0**	0	---	---
Silver	ppm	**0**	0	---	---
Manganese	ppm	**1**	5	---	---
Vanadium	ppm	**0**	0	---	---

ADDITIVES

Calcium	ppm	**1791**	1547	---	---
Magnesium	ppm	**534**	622	---	---
Zinc	ppm	**1124**	1210	---	---
Phosphorus	ppm	**979**	959	---	---
Barium	ppm	**<1**	0	---	---
Boron	ppm	**21**	32	---	---

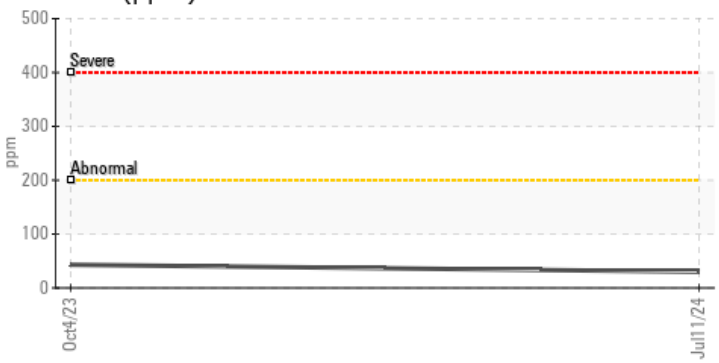
Diagnosis

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: VOLVO3387
Unique No: 11126344
Signed: Wes Davis
Report Date: 17 Jul 2024

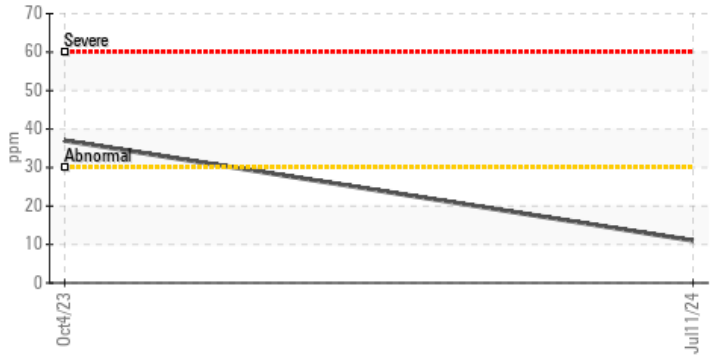
GRAPHS

Iron (ppm)

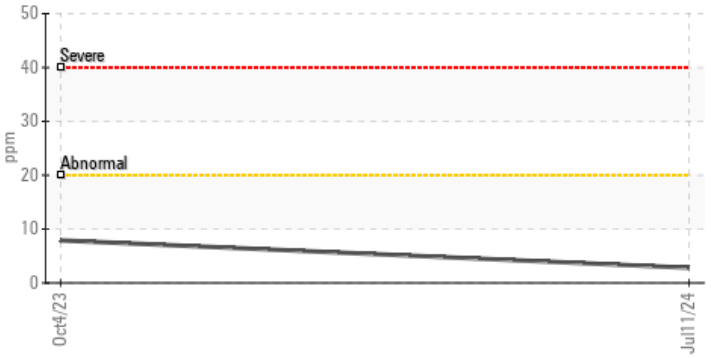


Lead (ppm)

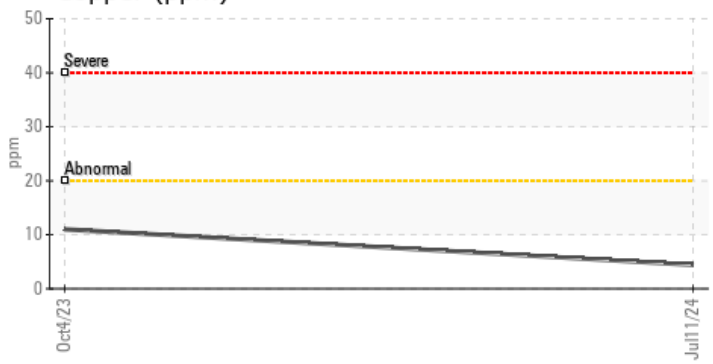
Aluminum (ppm)



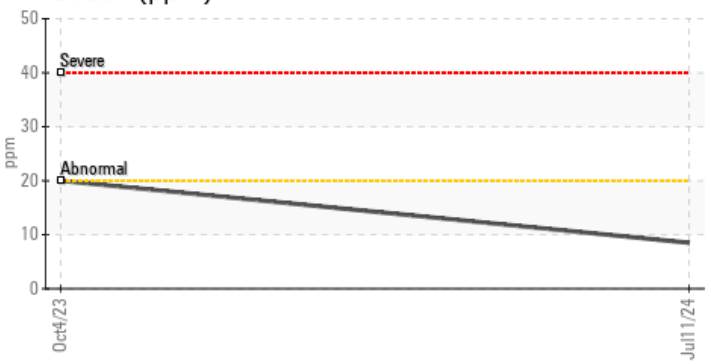
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C

Base Number