CONSTRUCTION EQUIPMENT
RAMCO VOLVO EC290BLC 80411 - DIESEL ENGINE

Sample No: VCP426704
Oil Type: {unknown}
Job No: RAMCO

SAMPLE INFORMATION

Sample Number		**VCP426704**	---	---	---
Sample Date		**18 May 2024**	---	---	---
Machine Hours		**5000**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Changed**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	**14.5**	---	---	---
Base Number (BN)	mg KOH/g	**9.3**	---	---	---
Oxidation (PA)	%	**64**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Soot %	%	**0.3**	---	---	---
Nitration (PA)	%	**76**	---	---	---
Sulfation (PA)	%	**58**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	**<1.0**	---	---	---
Silicon	ppm	**7**	---	---	---
Sodium	ppm	**42**	---	---	---
Potassium	ppm	**100**	---	---	---

WEAR METALS

Iron	ppm	**28**	---	---	---
Copper	ppm	**13**	---	---	---
Lead	ppm	**<1**	---	---	---
Tin	ppm	**<1**	---	---	---
Aluminum	ppm	**2**	---	---	---
Chromium	ppm	**1**	---	---	---
Molybdenum	ppm	**54**	---	---	---
Nickel	ppm	**0**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**<1**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**1646**	---	---	---
Magnesium	ppm	**809**	---	---	---
Zinc	ppm	**1395**	---	---	---
Phosphorus	ppm	**1152**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**40**	---	---	---

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Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

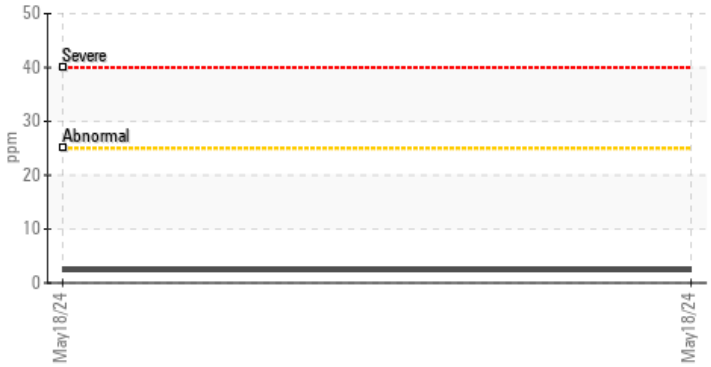
Depot: CHAWHIMA
Unique No: 11044010
Signed: Jonathan Hester
Report Date: 28 May 2024

GRAPHS

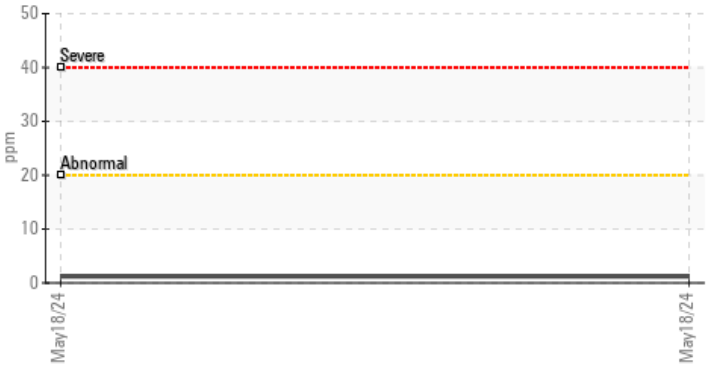
Iron (ppm)

Lead (ppm)

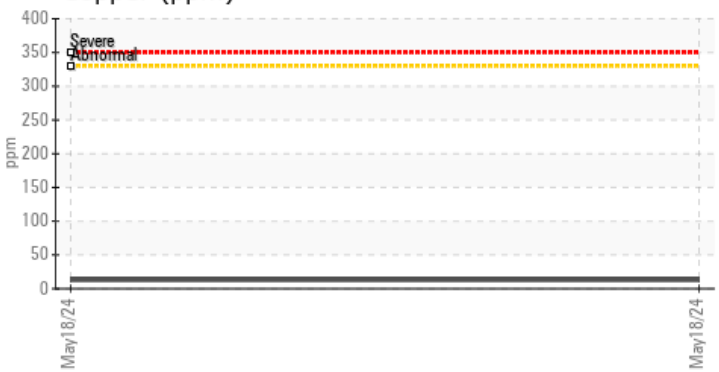
Aluminum (ppm)



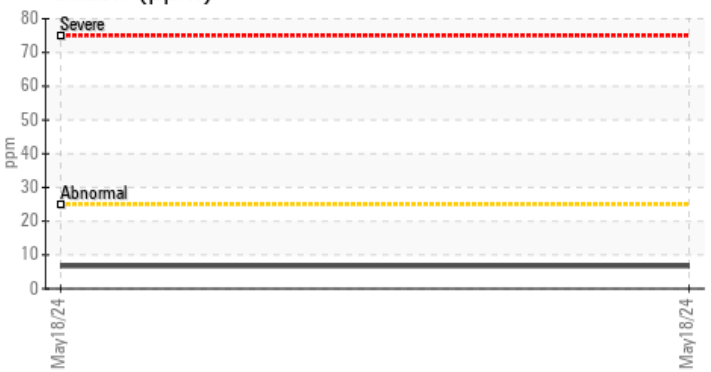
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C

Base Number