



CONSTRUCTION EQUIPMENT

DIAMONDBACK SERVICES YANMAR VIO55-6A JAH464 - DIESEL ENGINE



Sample No: VCP401448
Oil Type: NOT GIVEN
Job No: DIAMONDBACK SERVICES



SAMPLE INFORMATION

Sample Number	VCP401448	---	---	---
Sample Date	15 Nov 2023	---	---	---
Machine Hours	1967	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

ROMCO INC
 1350 NE LOOP 820
 FORT WORTH, TX
 US 76106
 Contact: CHRIS BITNER
 CBitner@romco.com
 T:
 F: (817)626-8983



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.0	---	---	---
Base Number (BN)	mg KOH/g	■ 7.3	---	---	---
Oxidation (PA)	%	78	---	---	---

Diagnosis

We advise that you check the fuel injection system. Resample at the next service interval to monitor. All component wear rates are normal. The wear metal levels do not reflect the reported failure. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.4	---	---	---
Nitration (PA)	%	78	---	---	---
Sulfation (PA)	%	62	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 6.5	---	---	---
Silicon	ppm	■ 15	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 5	---	---	---



WEAR METALS

Iron	ppm	■ 49	---	---	---
Copper	ppm	■ 5	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 12	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 45	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 1619	---	---	---
Magnesium	ppm	■ 201	---	---	---
Zinc	ppm	■ 1050	---	---	---
Phosphorus	ppm	798	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 252	---	---	---

Depot: VOLVO0081
Unique No: 10753839
Signed: Doug Bogart
Report Date: 07 Dec 2023

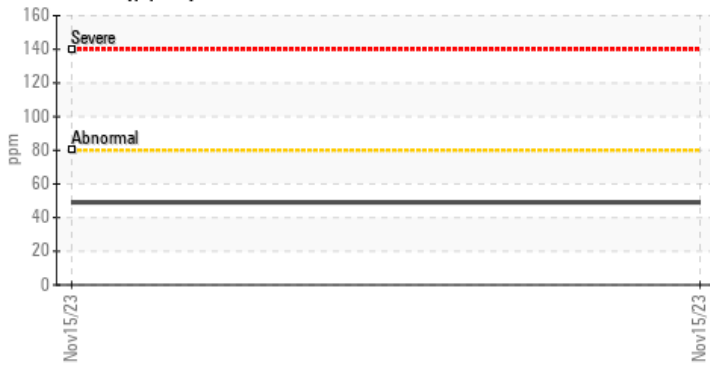


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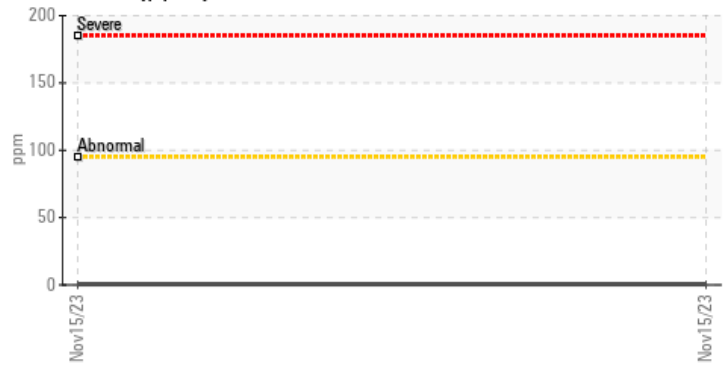


GRAPHS

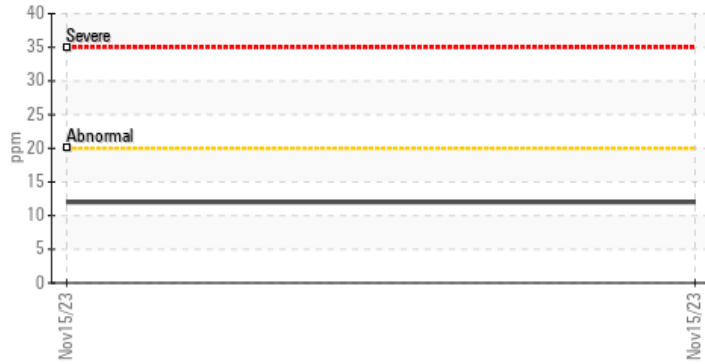
Iron (ppm)



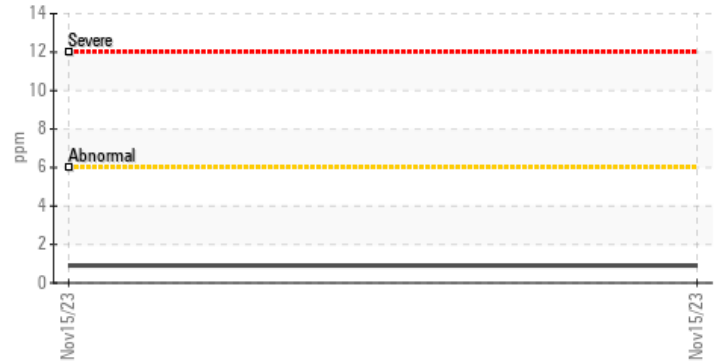
Lead (ppm)



Aluminum (ppm)



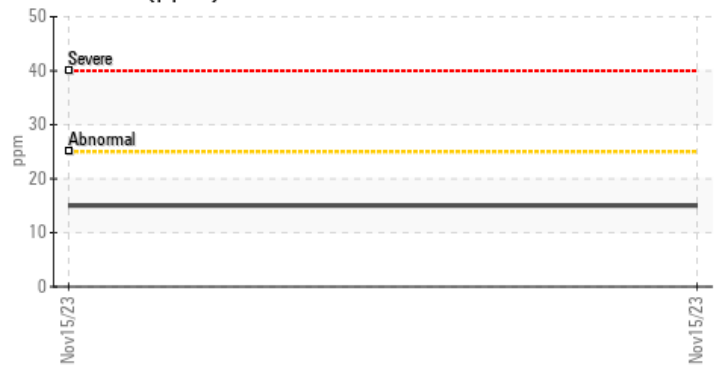
Chromium (ppm)



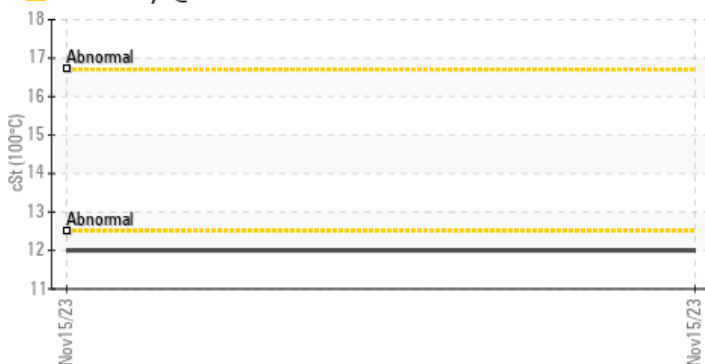
Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

