



# CONSTRUCTION EQUIPMENT

NADINE URUIOLI JAD FAKHRY VOLVO PENTA 320002096 - PORT IPS



**Sample No:** VCP051576  
**Oil Type:** VOLVO  
**Job No:** JAD FAKHRY



## SAMPLE INFORMATION

Sample Number	VCP051576	---	---	---
Sample Date	30 Jan 2024	---	---	---
Machine Hours	93	---	---	---
Oil Hours	93	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

**Helmut's Marine Service**  
619 Canal Street  
SAN RAFAEL, CA  
US 94901-3545  
Contact: NADINE URUIOLI  
SERVICE@HELMUTSMARINE.COM  
T: x:  
F: x:



## OIL CONDITION

Visc @ 40°C	cSt	█ 105	---	---	---
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## CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	0	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 2	---	---	---

**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 condition of the oil is acceptable for the time in service.



## WEAR METALS

PQ		█ 14	---	---	---
Iron	ppm	█ 9	---	---	---
Copper	ppm	4	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	0	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	3	---	---	---
Magnesium	ppm	125	---	---	---
Zinc	ppm	4	---	---	---
Phosphorus	ppm	1448	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	358	---	---	---

**Depot:** VP152741  
**Unique No:** 10871372  
**Signed:** Don Baldrige  
**Report Date:** 11 Feb 2024



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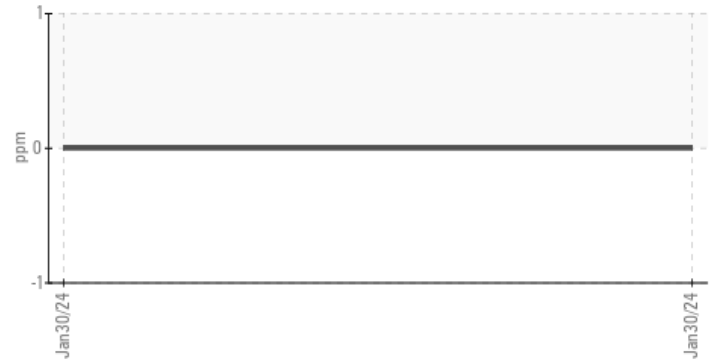


## GRAPHS

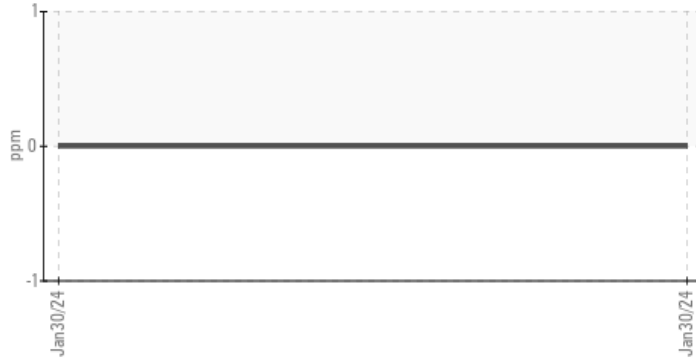
### Iron (ppm)



### Lead (ppm)



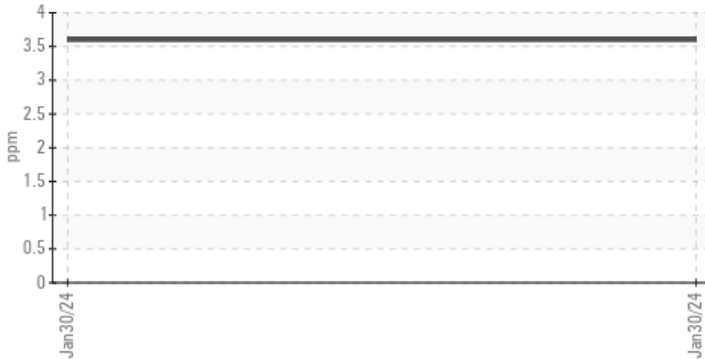
### Aluminum (ppm)



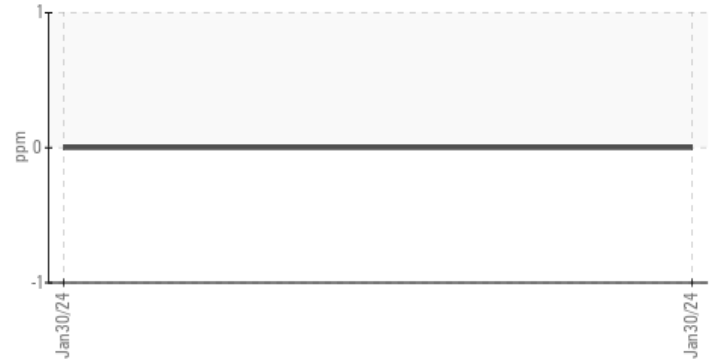
### Chromium (ppm)



### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### PQ

