



# CONSTRUCTION EQUIPMENT

## PRINCE VOLVO L90H 626620 - HYDRAULIC SYSTEM



**Sample No:** VCP432260  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** PRINCE



### SAMPLE INFORMATION

Sample Number	VCP432260	VCP417567	---	---
Sample Date	26 Dec 2023	30 Jun 2023	---	---
Machine Hours	2127	1057	---	---
Oil Hours	0	1057	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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### OIL CONDITION

Visc @ 40°C	cSt	▲ 42.5	■ 43.0	---	---
Acid Number (AN)	mg KOH/g	■ 0.28	■ 0.33	---	---



### CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		▲ 23908	▲ 11617	---	---
Particles >6µm		▲ 6273	▲ 2590	---	---
Particles >14µm		▲ 435	■ 157	---	---
ISO 4406:1999 (c)		22/20/16	21/19/14	---	---
Silicon	ppm	■ 3	■ 3	---	---
Sodium	ppm	■ 0	■ 0	---	---
Potassium	ppm	■ 1	■ 1	---	---

### Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.



### WEAR METALS

Iron	ppm	■ 7	■ 4	---	---
Copper	ppm	■ 2	■ 2	---	---
Lead	ppm	■ 1	■ 1	---	---
Tin	ppm	■ <1	■ 0	---	---
Aluminum	ppm	■ 2	■ 0	---	---
Chromium	ppm	■ <1	■ 0	---	---
Molybdenum	ppm	■ <1	■ <1	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	■ <1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ 0	■ 0	---	---
Vanadium	ppm	0	0	---	---



### ADDITIVES

Calcium	ppm	■ 57	■ 62	---	---
Magnesium	ppm	■ 4	■ 4	---	---
Zinc	ppm	■ 424	■ 458	---	---
Phosphorus	ppm	■ 357	■ 343	---	---
Barium	ppm	■ 0	■ 1	---	---
Boron	ppm	■ 0	■ 0	---	---

**Depot:** VOLVO0093  
**Unique No:** 10829415  
**Signed:** Don Baldrige  
**Report Date:** 12 Jan 2024

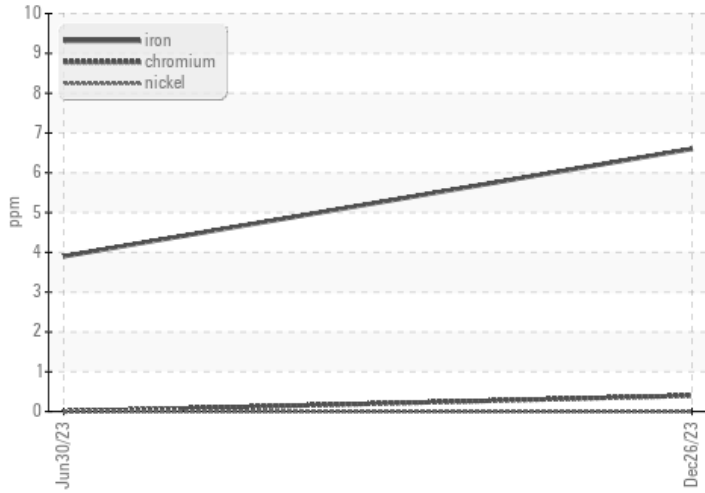


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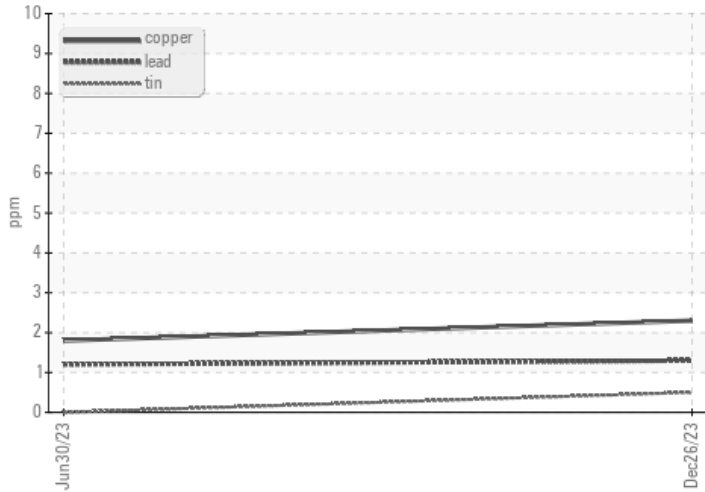


## GRAPHS

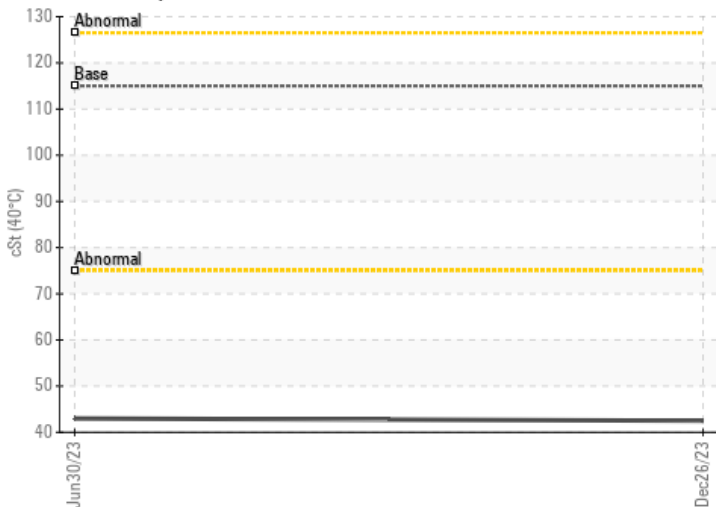
### Ferrous Alloys



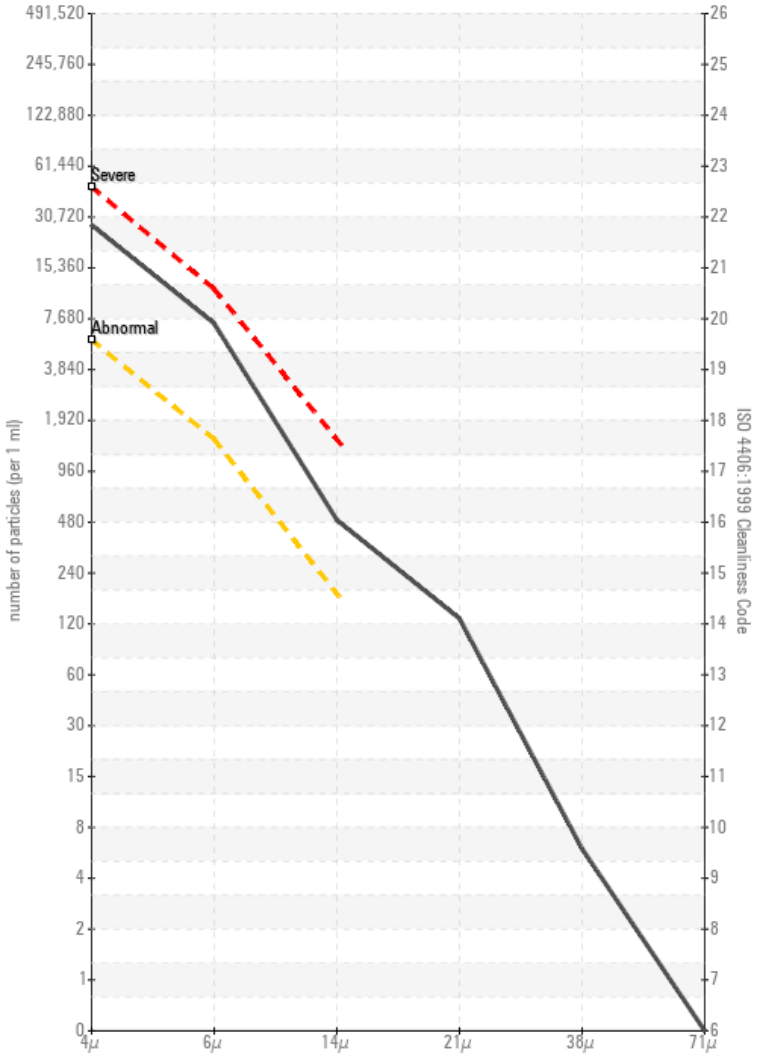
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

