



CONSTRUCTION EQUIPMENT

PRINCE VOLVO L90H 626620 - HYDRAULIC SYSTEM



Sample No: VCP440332
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: PRINCE



SAMPLE INFORMATION

Sample Number	VCP440332	VCP432260	VCP417567	---
Sample Date	07 Jun 2024	26 Dec 2023	30 Jun 2023	---
Machine Hours	3112	2127	1057	---
Oil Hours	0	0	1057	---
Oil Changed	Not Changd	N/A	Not Changd	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---



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OIL CONDITION

Visc @ 40°C	cSt	42.6	42.5	43.0	---
Acid Number (AN)	mg KOH/g	0.35	0.28	0.33	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		3493	23908	11617	---
Particles >6µm		767	6273	2590	---
Particles >14µm		32	435	157	---
ISO 4406:1999 (c)		19/17/12	22/20/16	21/19/14	---
Silicon	ppm	4	3	3	---
Sodium	ppm	0	0	0	---
Potassium	ppm	2	1	1	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	9	7	4	---
Copper	ppm	3	2	2	---
Lead	ppm	2	1	1	---
Tin	ppm	<1	<1	0	---
Aluminum	ppm	2	2	0	---
Chromium	ppm	<1	<1	0	---
Molybdenum	ppm	<1	<1	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	0	0	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	128	57	62	---
Magnesium	ppm	7	4	4	---
Zinc	ppm	448	424	458	---
Phosphorus	ppm	324	357	343	---
Barium	ppm	0	0	1	---
Boron	ppm	2	0	0	---

Depot: VOLVO0093
Unique No: 11075174
Signed: Wes Davis
Report Date: 13 Jun 2024

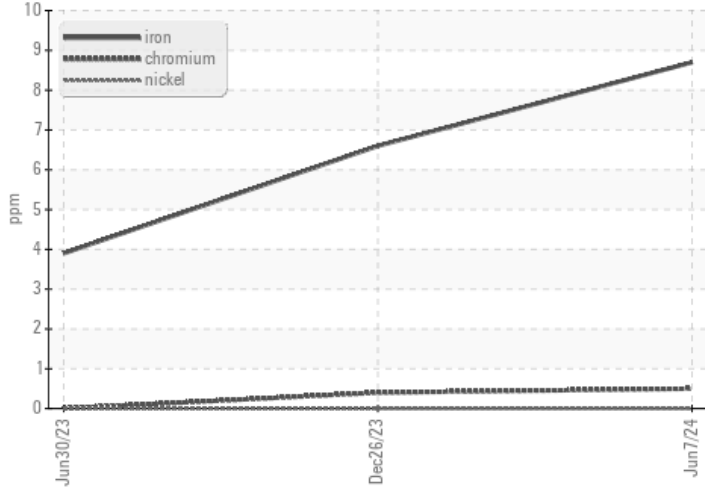


CONSTRUCTION EQUIPMENT

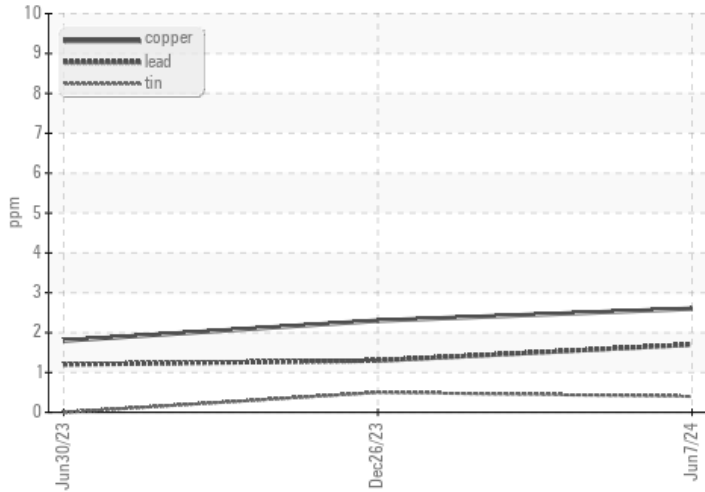


GRAPHS

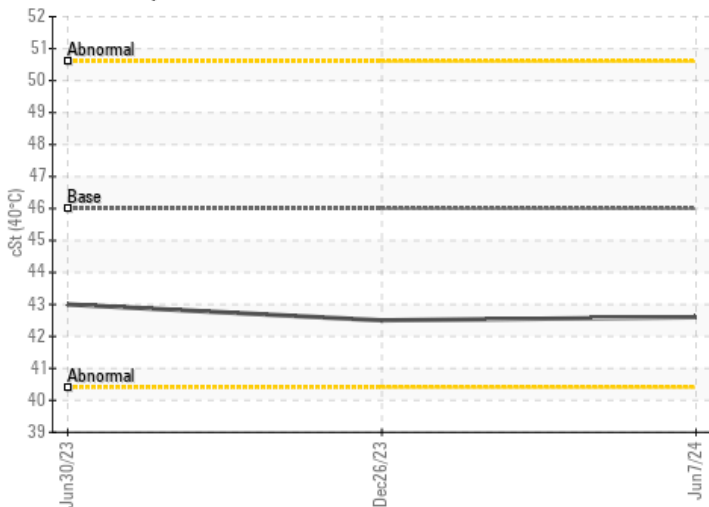
Ferrous Alloys



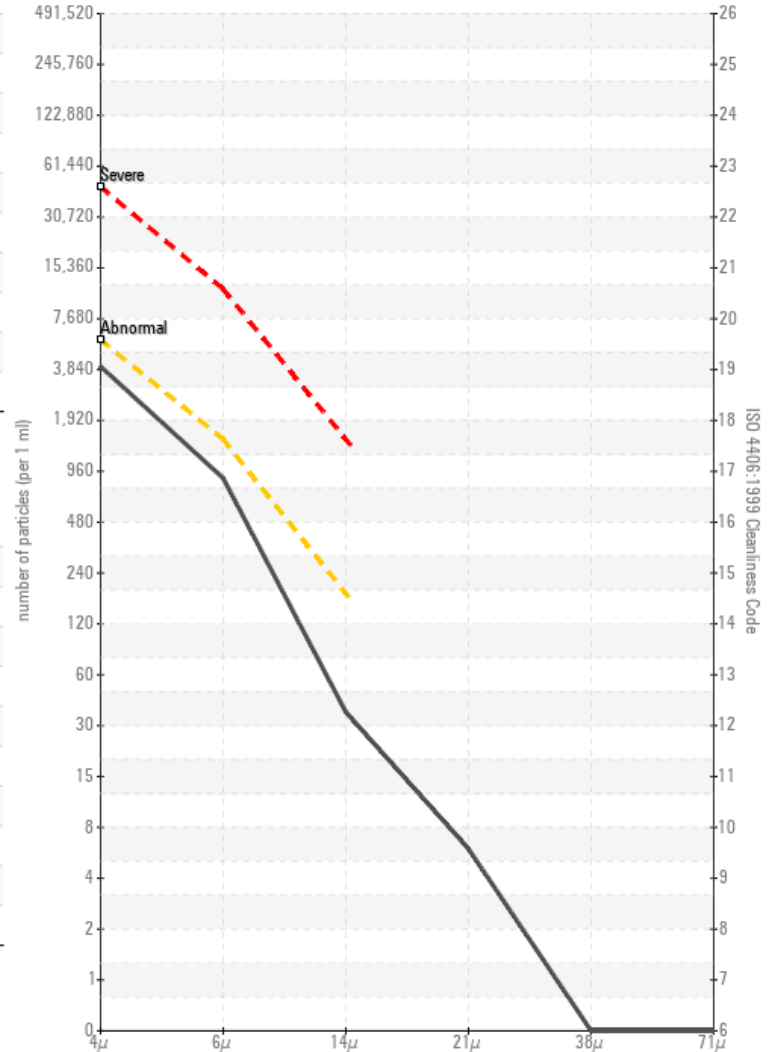
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

