



CONSTRUCTION EQUIPMENT

SW1024553 VOLVO L90H 624722 - HYDRAULIC SYSTEM



Sample No: VCP412559
Oil Type: ESSO NUTO H ISO 46
Job No: SW1024553



SAMPLE INFORMATION

Sample Number	VCP412559	VCP400939	---	---
Sample Date	25 Sep 2023	09 May 2023	---	---
Machine Hours	3498	3337	---	---
Oil Hours	0	3337	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

ARNOLD MACHINERY COMPANY
 4323 EAST WINSLOW AVENUE
 PHOENIX, AZ
 US 85040
 Contact: RANDY PRZEKURAT
 randyp@arnoldmachinery.com
 T:
 F: (602)414-1904



OIL CONDITION

Visc @ 40°C	cSt	42.0	41.7	---	---
Acid Number (AN)	mg KOH/g	0.50	0.71	---	---



CONTAMINATION

Particles >4µm		5603	15367	---	---
Particles >6µm		1056	2678	---	---
Particles >14µm		68	138	---	---
ISO 4406:1999 (c)		20/17/13	21/19/14	---	---
Silicon	ppm	4	5	---	---
Sodium	ppm	1	4	---	---
Potassium	ppm	0	3	---	---

Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	830	877	---	---
Magnesium	ppm	7	5	---	---
Zinc	ppm	607	642	---	---
Phosphorus	ppm	510	499	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	1	---	---

Depot: VOLVO6174
Unique No: 10671865
Signed: Wes Davis
Report Date: 02 Oct 2023

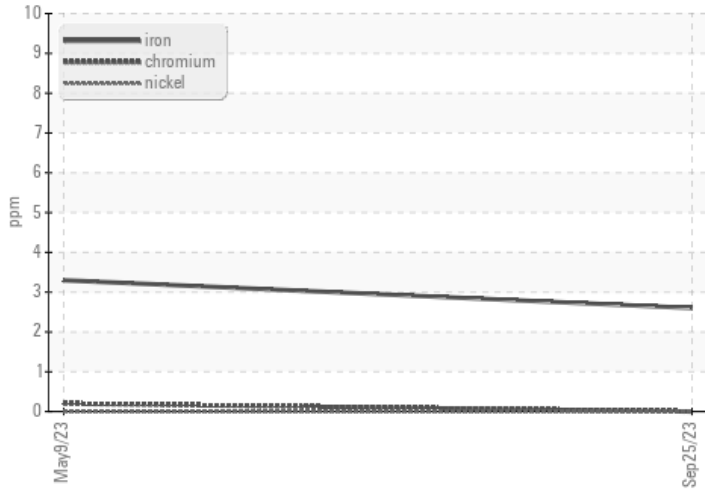


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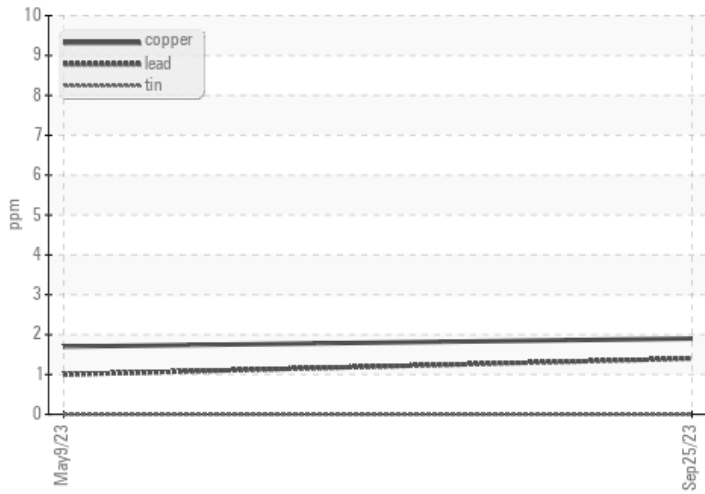


GRAPHS

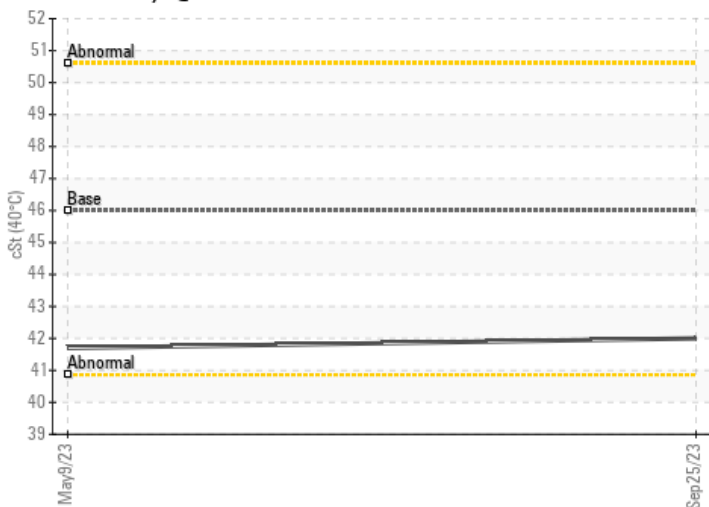
Ferrous Alloys



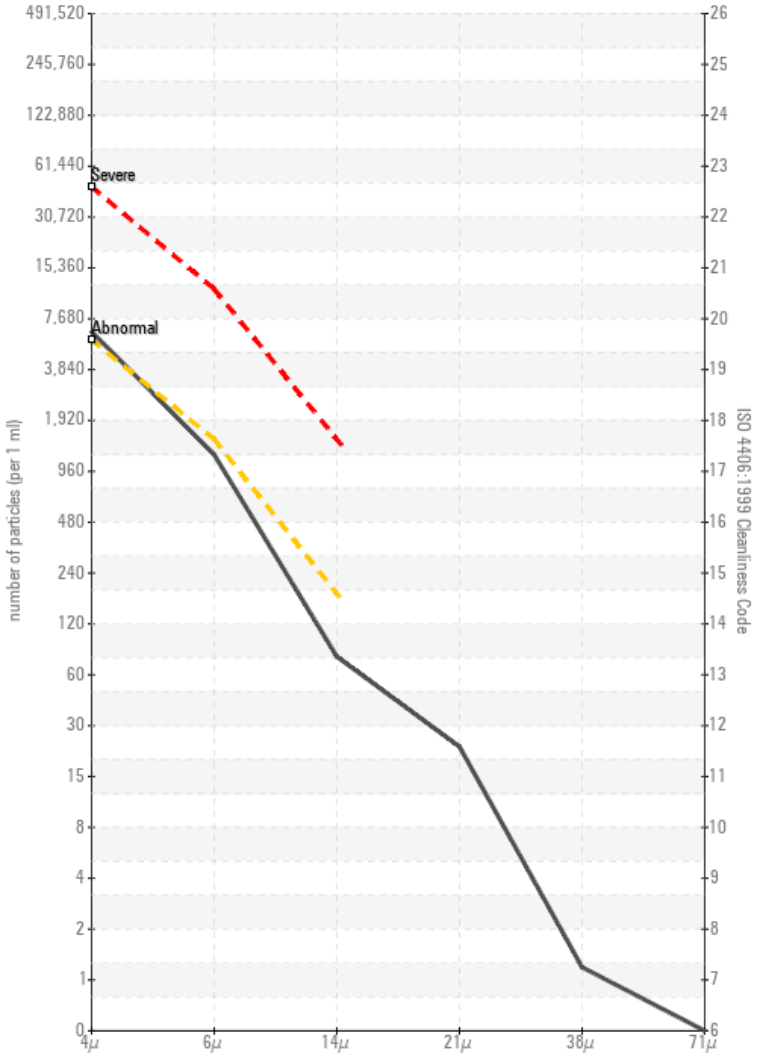
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

