CONSTRUCTION EQUIPMENT

NEWPORT SAND & GRAVE VOLVO L220F 6827 - HYDRAULIC SYSTEM

Sample No: VCP418422
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: NEWPORT SAND & GRAVE

160 - ASCENDUM MACHINERY INC - MILLS RIVER
215 FANNING FIELDS RD
MILLS RIVER, NC
US 28759
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T: (828)687-0620
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SAMPLE INFORMATION

Sample Number		**VCP418422**	VCE087634	---	---
Sample Date		**18 Sep 2023**	13 Sep 2011	---	---
Machine Hours		**0**	7209	---	---
Oil Hours		**0**	0	---	---
Oil Changed		**Not Changd**	Changed	---	---
Sample Status		**NORMAL**	NORMAL	---	---

OIL CONDITION

Visc @ 40°C	cSt	**46.6**	40.86	---	---
Acid Number (AN)	mg KOH/g	**0.55**	1.28	---	---

CONTAMINATION

Particles >4µm		**20748**	236	---	---
Particles >6µm		**1866**	128	---	---
Particles >14µm		**54**	21	---	---
ISO 4406:1999 (c)		**22/18/13**	15/14/12	---	---
Silicon	ppm	**1**	8	---	---
Sodium	ppm	**2**	2	---	---
Potassium	ppm	**2**	2	---	---

WEAR METALS

Iron	ppm	**0**	9	---	---
Copper	ppm	**<1**	5	---	---
Lead	ppm	**0**	2	---	---
Tin	ppm	**0**	0	---	---
Aluminum	ppm	**1**	3	---	---
Chromium	ppm	**0**	<1	---	---
Molybdenum	ppm	**0**	2	---	---
Nickel	ppm	**0**	0	---	---
Titanium	ppm	**2**	<1	---	---
Silver	ppm	**0**	0	---	---
Manganese	ppm	**0**	<1	---	---
Vanadium	ppm	**0**	<1	---	---

ADDITIVES

Calcium	ppm	**124**	745	---	---
Magnesium	ppm	**16**	3	---	---
Zinc	ppm	**486**	615	---	---
Phosphorus	ppm	**382**	493	---	---
Barium	ppm	**0**	0	---	---
Boron	ppm	**3**	6	---	---

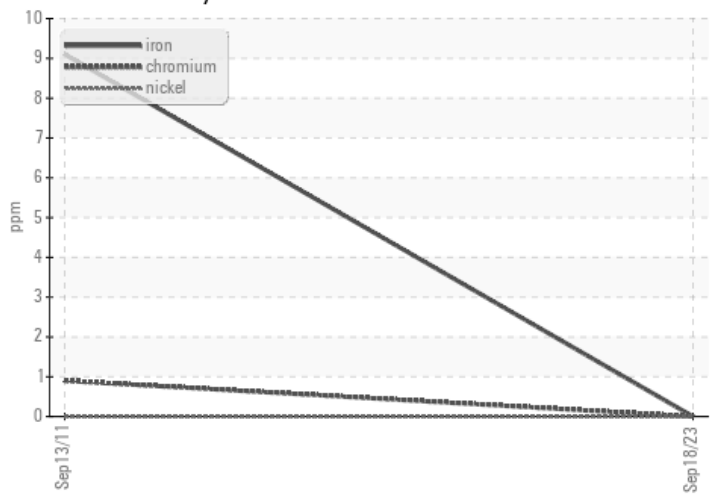
Diagnosis

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 amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

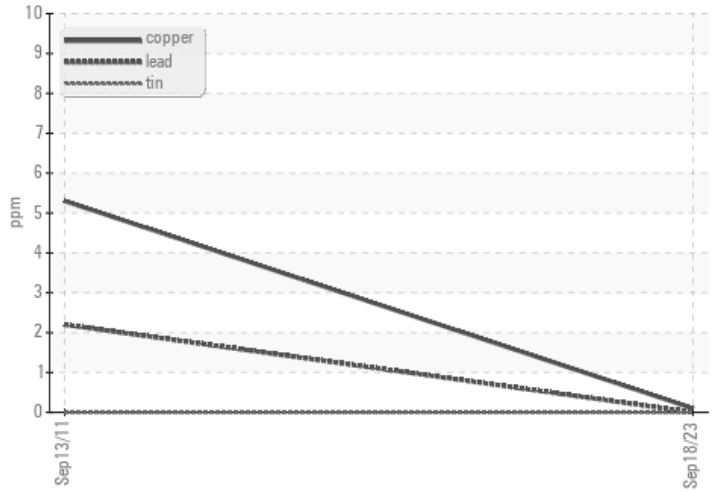
Depot: VOLVO1672
Unique No: 10659800
Signed: Doug Bogart
Report Date: 24 Sep 2023

GRAPHS

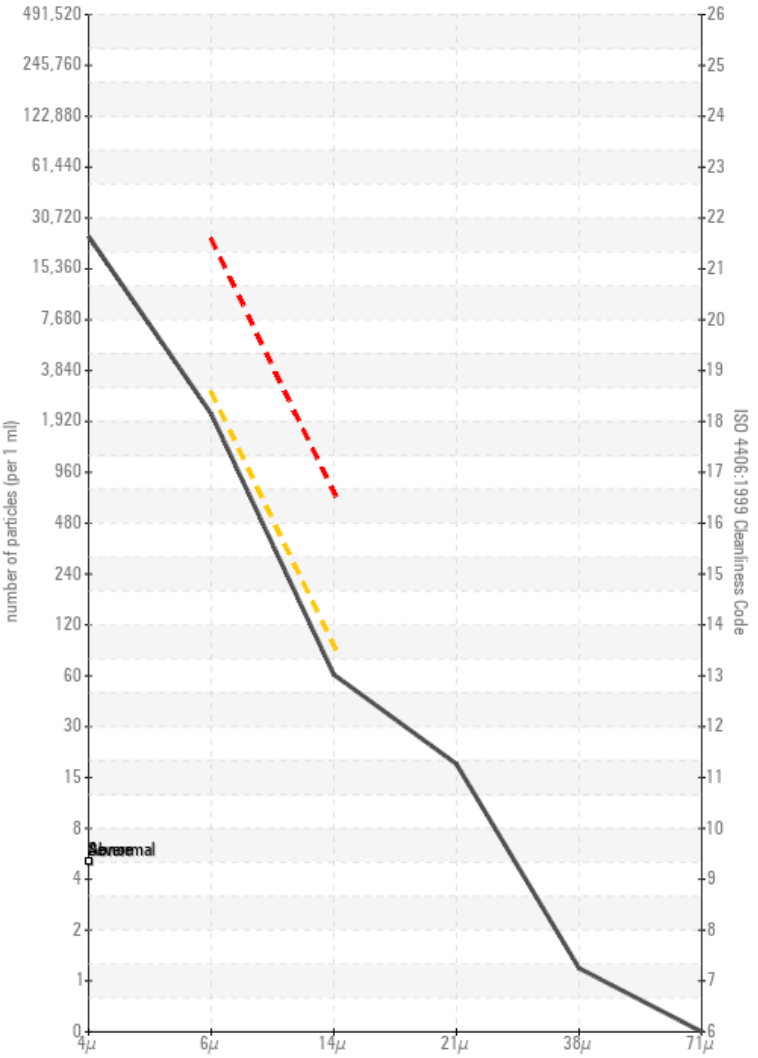
Ferrous Alloys



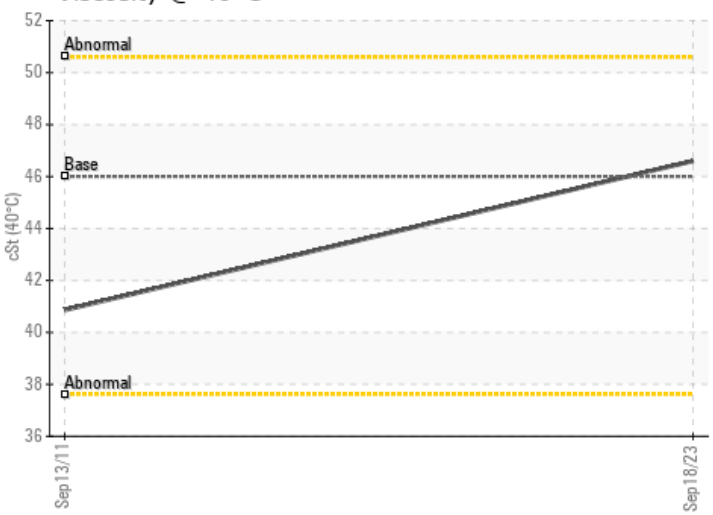
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number