CONSTRUCTION EQUIPMENT

SW-29953 SEG 1 RANGO VOLVO R100E 121019 - HYDRAULIC SYSTEM

Sample No: VCP442462
Oil Type: {unknown}
Job No: SW-29953 SEG 1 RANGO

SAMPLE INFORMATION

Sample Number		**VCP442462**	---	---	---
Sample Date		**26 Feb 2024**	---	---	---
Machine Hours		**3292**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	**51.7**	---	---	---
Acid Number (AN)	mg KOH/g	**0.52**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Particles >4µm		**53636**	---	---	---
Particles >6µm		**3389**	---	---	---
Particles >14µm		**71**	---	---	---
ISO 4406:1999 (c)		**23/19/13**	---	---	---
Silicon	ppm	**18**	---	---	---
Sodium	ppm	**2**	---	---	---
Potassium	ppm	**0**	---	---	---

WEAR METALS

Iron	ppm	**8**	---	---	---
Copper	ppm	**87**	---	---	---
Lead	ppm	**2**	---	---	---
Tin	ppm	**0**	---	---	---
Aluminum	ppm	**2**	---	---	---
Chromium	ppm	**0**	---	---	---
Molybdenum	ppm	**0**	---	---	---
Nickel	ppm	**3**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**0**	---	---	---
Vanadium	ppm	**<1**	---	---	---

ADDITIVES

Calcium	ppm	**971**	---	---	---
Magnesium	ppm	**2**	---	---	---
Zinc	ppm	**407**	---	---	---
Phosphorus	ppm	**433**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**<1**	---	---	---

ARNOLD MACHINERY COMPANY
2975 WEST 2100 SOUTH
SALT LAKE CITY, UT
US 84119
Contact: TONY PAYAN
tpayan@arnoldmachinery.com
T: (801)972-4000
F: (801)975-9434

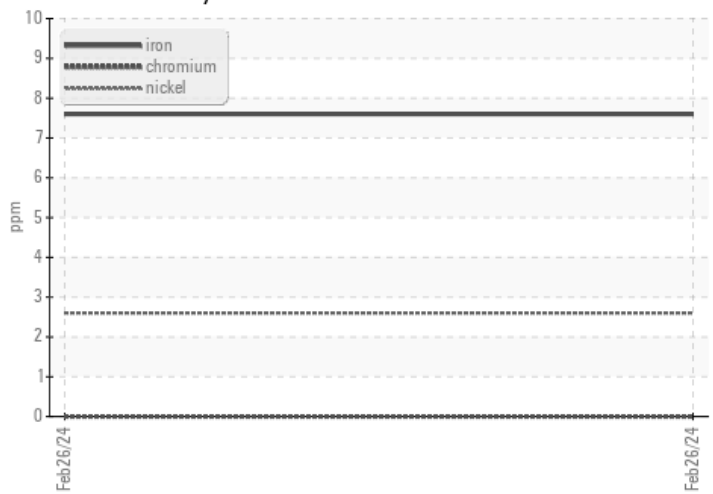
Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor.The copper level is abnormal. All other component wear rates are normal. There is a high 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.

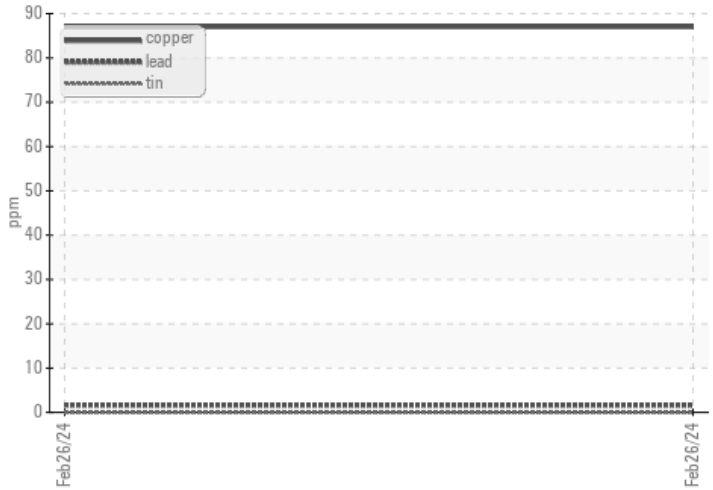
Depot: VOLVO8770
Unique No: 10903362
Signed: Don Baldridge
Report Date: 04 Mar 2024

GRAPHS

Ferrous Alloys

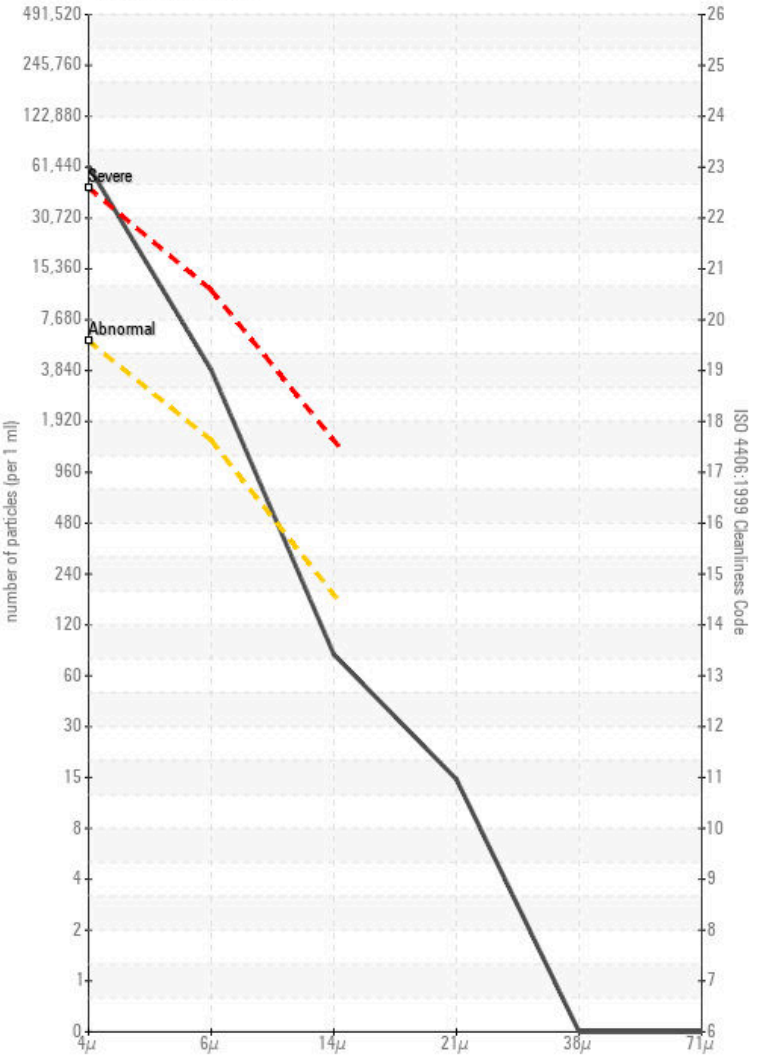


Non-ferrous Metals



Viscosity @ 40°C

Particle Count



Acid Number