



CONSTRUCTION EQUIPMENT

SW1020059 SUNLAND AS VOLVO DD140C 290070 - HYDRAULIC SYSTEM



Sample No: VCP397900
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SW1020059 SUNLAND AS



SAMPLE INFORMATION

Sample Number	VCP397900	---	---	---
Sample Date	16 Jun 2023	---	---	---
Machine Hours	2539	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	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	█ 43.9	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.05	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 11279	---	---	---
Particles >6µm		▲ 4316	---	---	---
Particles >14µm		▲ 626	---	---	---
ISO 4406:1999 (c)		21/19/16	---	---	---
Silicon	ppm	█ 1	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ <1	---	---	---

Diagnosis

No corrective action is recommended at this time. Oil and 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 high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	█ 4	---	---	---
Copper	ppm	█ 10	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 296	---	---	---
Magnesium	ppm	█ <1	---	---	---
Zinc	ppm	█ 121	---	---	---
Phosphorus	ppm	█ 477	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 3	---	---	---

Depot: VOLVO6174
Unique No: 10525843
Signed: Don Baldrige
Report Date: 25 Jun 2023

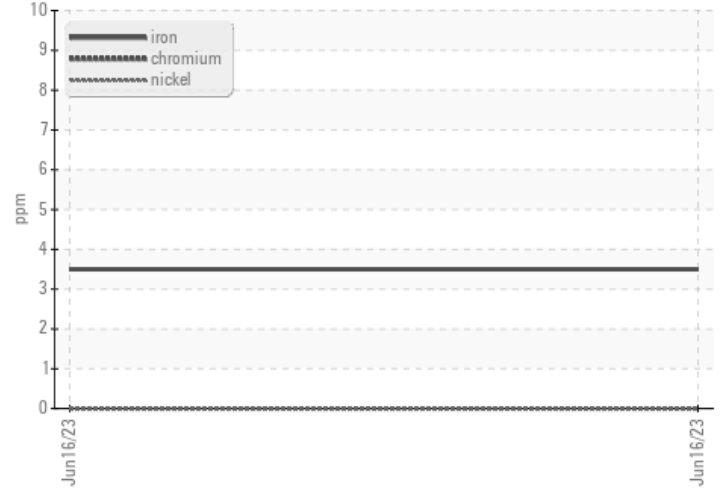


CONSTRUCTION EQUIPMENT

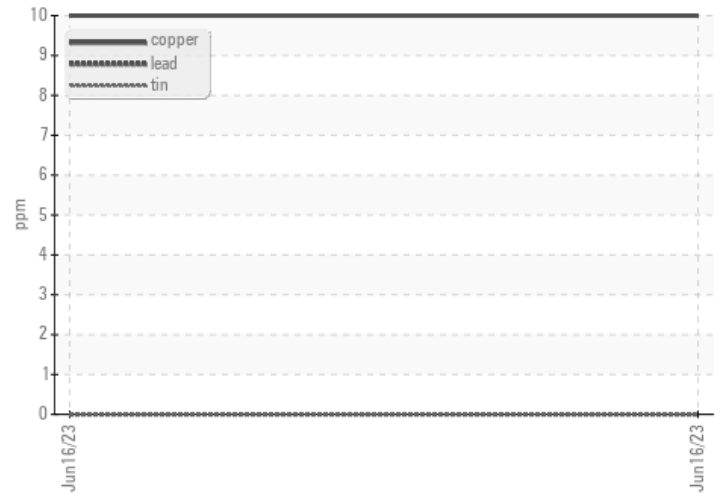


GRAPHS

Ferrous Alloys



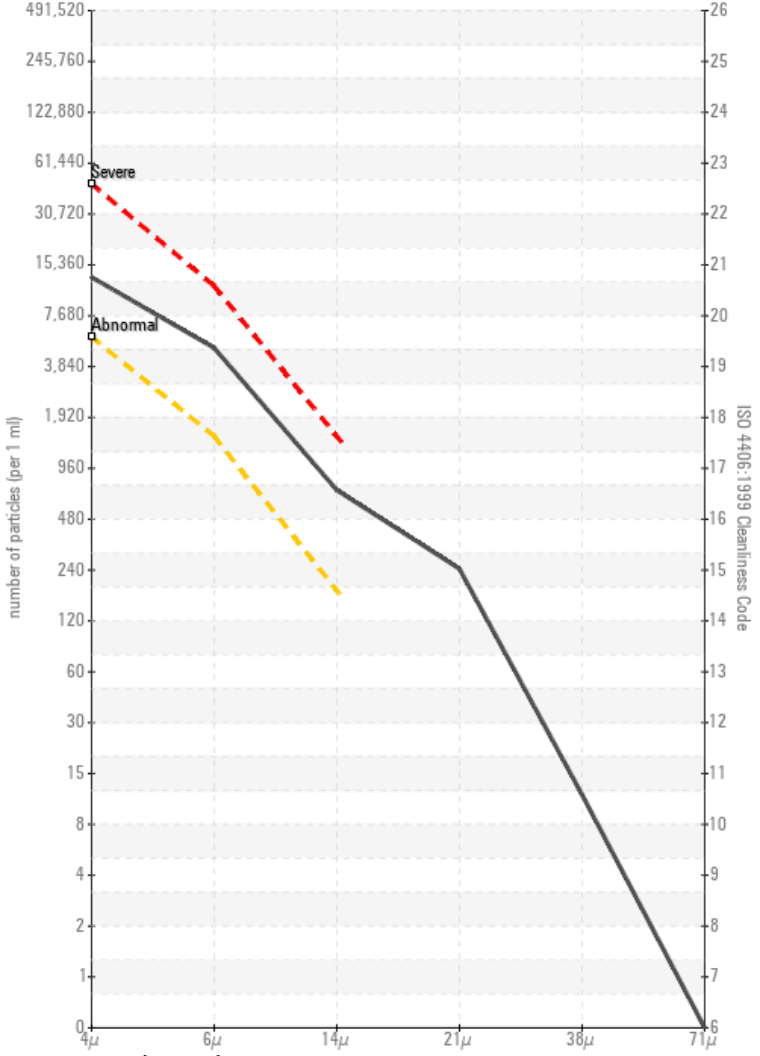
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

