



CONSTRUCTION EQUIPMENT

A12805 VOLVO EC220D 210516 - HYDRAULIC SYSTEM



Sample No: VCP445216
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A12805



SAMPLE INFORMATION

Sample Number	VCP445216	VCP408157	---	---
Sample Date	13 Jun 2024	27 Jan 2024	---	---
Machine Hours	19465	18920	---	---
Oil Hours	1500	1000	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ABNORMAL	NORMAL	---	---

WASTE MANAGEMENT - TELFORD
 400 PROGRESS DR
 TELFORD, PA
 US 18969-1191
 Contact: EDWARD ROGENER
 erogener@wm.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	█ 43.1	█ 42.9	---	---
Acid Number (AN)	mg KOH/g	█ 0.34	█ 0.36	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		---	█ 20471	---	---
Particles >6µm		---	█ 2952	---	---
Particles >14µm		---	█ 138	---	---
ISO 4406:1999 (c)		---	22/19/14	---	---
Silicon	ppm	█ 7	█ 2	---	---
Sodium	ppm	█ 4	█ 0	---	---
Potassium	ppm	█ 4	█ <1	---	---

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris 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	█ 17	█ 3	---	---
Copper	ppm	█ 3	█ 6	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ 1	█ 2	---	---
Chromium	ppm	█ 1	█ 2	---	---
Molybdenum	ppm	█ 0	█ 2	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

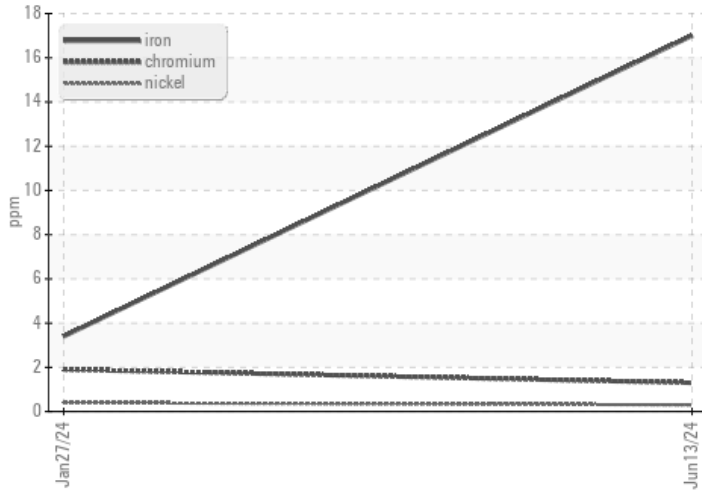
Calcium	ppm	█ 140	█ 149	---	---
Magnesium	ppm	█ 21	█ 11	---	---
Zinc	ppm	█ 493	█ 455	---	---
Phosphorus	ppm	█ 388	█ 391	---	---
Barium	ppm	█ 0	█ 13	---	---
Boron	ppm	█ 3	█ 2	---	---

Depot: WASTEL
Unique No: 11088599
Signed: Don Baldrige
Report Date: 22 Jun 2024

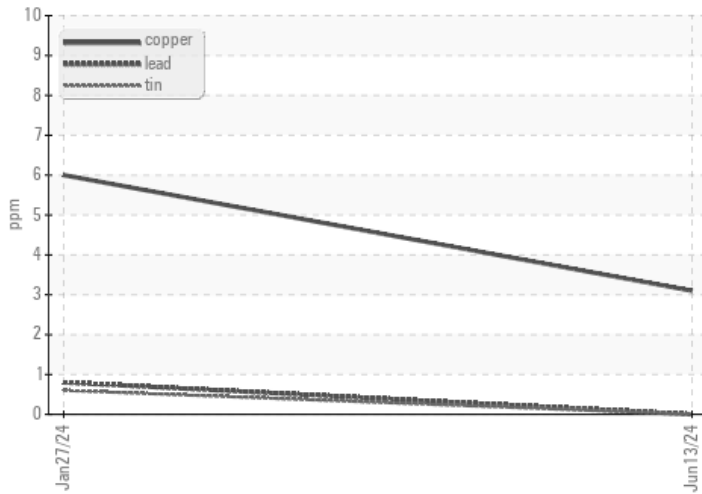


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

