



CONSTRUCTION EQUIPMENT

SW1021048 GRANT MACK VOLVO EC480E 310924 - HYDRAULIC SYSTEM



Sample No: VCP306553
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SW1021048 GRANT MACK



SAMPLE INFORMATION

Sample Number	VCP306553	VCP354250	---	---
Sample Date	27 Jul 2023	26 May 2022	---	---
Machine Hours	7530	5705	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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



OIL CONDITION

Visc @ 40°C	cSt	44.5	42.3	---	---
Acid Number (AN)	mg KOH/g	0.50	0.51	---	---



CONTAMINATION

Particles >4µm		34631	20118	---	---
Particles >6µm		5766	1138	---	---
Particles >14µm		235	80	---	---
ISO 4406:1999 (c)		22/20/15	22/17/13	---	---
Silicon	ppm	5	4	---	---
Sodium	ppm	<1	1	---	---
Potassium	ppm	<1	0	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	11	13	---	---
Copper	ppm	6	7	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	2	1	---	---
Molybdenum	ppm	<1	<1	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	121	119	---	---
Magnesium	ppm	6	1	---	---
Zinc	ppm	493	482	---	---
Phosphorus	ppm	395	390	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	0	---	---

Depot: VOLVO8770
Unique No: 10586405
Signed: Jonathan Hester
Report Date: 04 Aug 2023

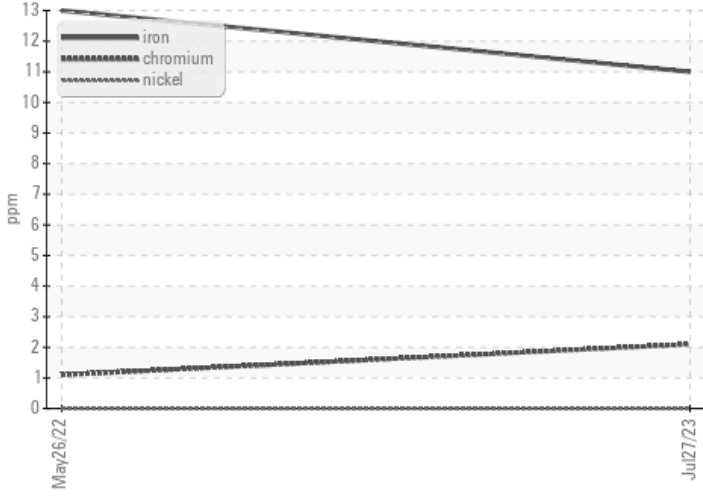


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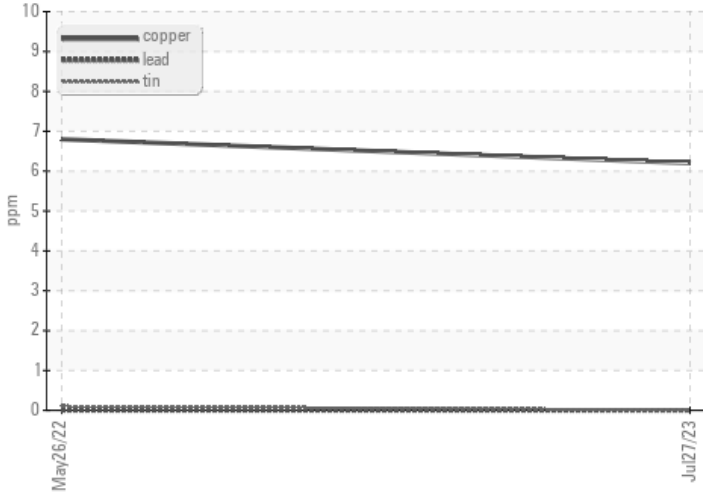


GRAPHS

Ferrous Alloys



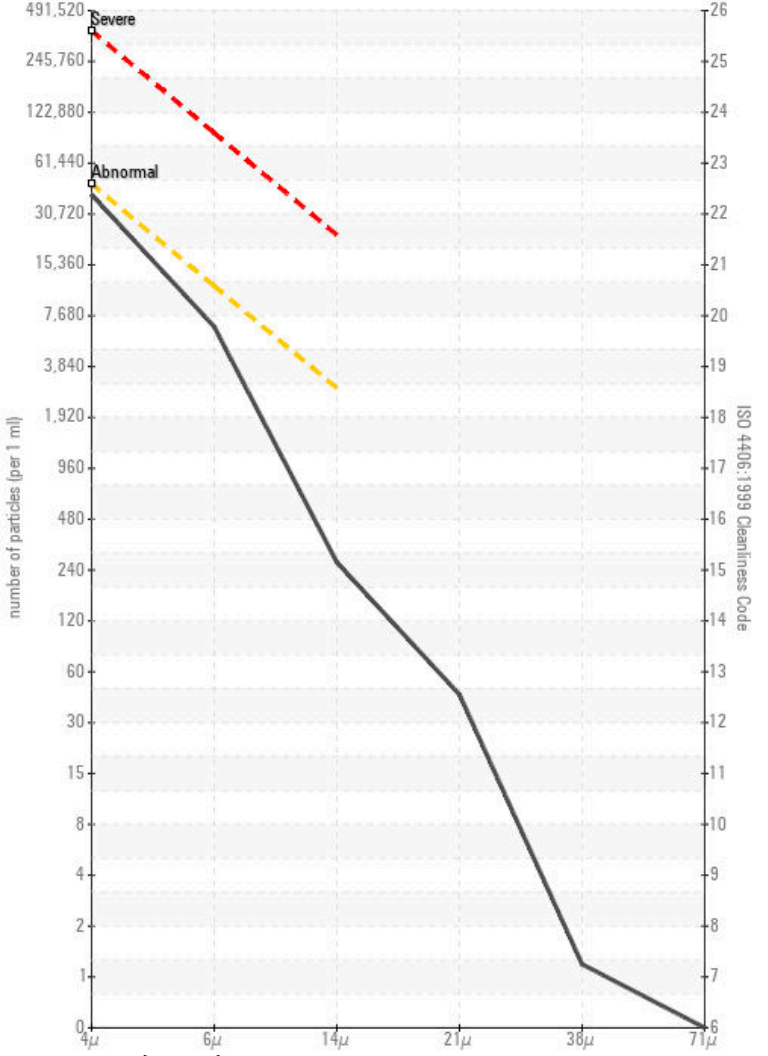
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

