



CONSTRUCTION EQUIPMENT

225927 WM VOLVO L220G 12593 - HYDRAULIC SYSTEM



Sample No: VCP403267
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 225927 WM



SAMPLE INFORMATION

Sample Number	VCP403267	VCP371495	VCP259061	VCP259188
Sample Date	12 Apr 2024	07 Nov 2023	17 Aug 2020	14 Feb 2020
Machine Hours	7996	7898	6904	6528
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	SEVERE	NORMAL	ATTENTION

PACWEST MACHINERY
8207 SOUTH 216TH STREET
KENT, WA
US 98032
Contact: DAN SLAGLE
dslagle@pacwestmachinery.com
T: (206)482-4179
F: (509)534-5286



OIL CONDITION

Visc @ 40°C	cSt	43.5	42.7	40.5	40.4
Acid Number (AN)	mg KOH/g	0.38	0.32	0.397	0.362



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		62578	96924	717	13620
Particles >6µm		▲ 11327	▲ 17378	■ 75	■ 2420
Particles >14µm		▲ 627	▲ 735	■ 2	● 104
ISO 4406:1999 (c)		23/21/16	24/21/17	17/13/9	21/18/14
Silicon	ppm	■ 3	■ 4	■ 8	■ 10
Sodium	ppm	■ 3	■ 2	■ 3	■ 3
Potassium	ppm	■ <1	■ 0	■ <1	■ <1

Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron	ppm	■ 5	■ 6	■ 9	■ 10
Copper	ppm	■ <1	■ 2	■ 4	■ 5
Lead	ppm	■ 0	■ 0	■ 0	■ <1
Tin	ppm	■ 0	■ <1	■ 0	■ <1
Aluminum	ppm	■ 0	■ <1	■ 0	■ 3
Chromium	ppm	■ 0	■ <1	■ 1	■ 1
Molybdenum	ppm	■ 0	■ 0	■ <1	<1
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	■ 0	■ 0	■ <1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	■ 101	■ 44	■ 119	130
Magnesium	ppm	■ 11	■ 0	■ 0	2
Zinc	ppm	■ 434	■ 380	■ 386	437
Phosphorus	ppm	■ 339	■ 295	■ 309	334
Barium	ppm	■ 0	■ 0	■ 0	0
Boron	ppm	■ 0	■ 0	■ 4	2

Depot: VOLVO1271
Unique No: 10994433
Signed: Wes Davis
Report Date: 25 Apr 2024

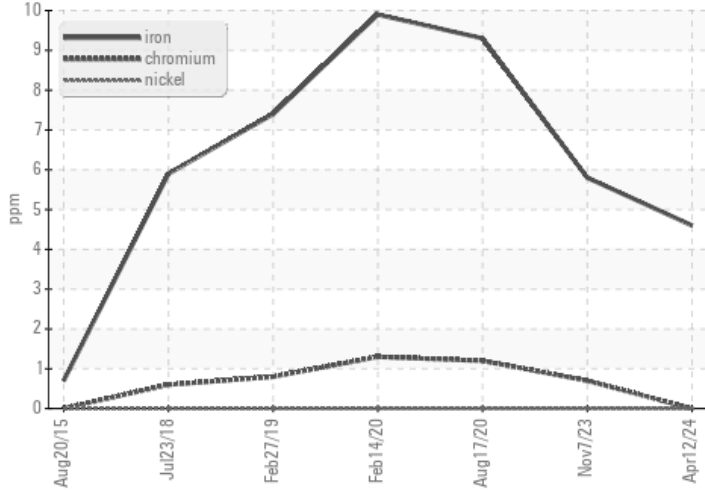


CONSTRUCTION EQUIPMENT

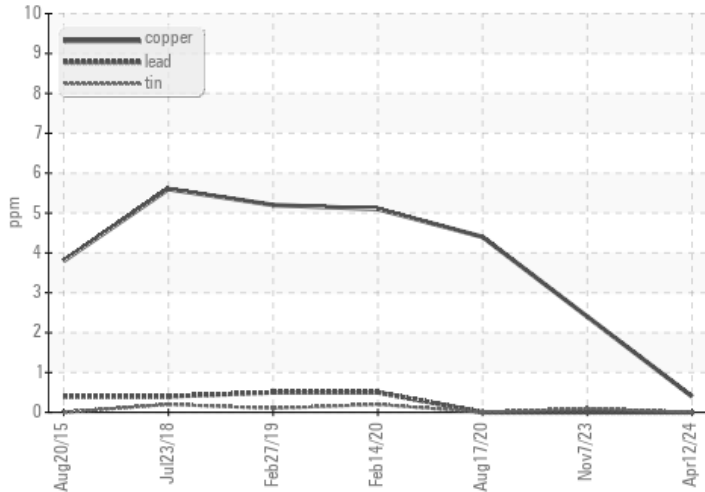


VOLVO GRAPHS

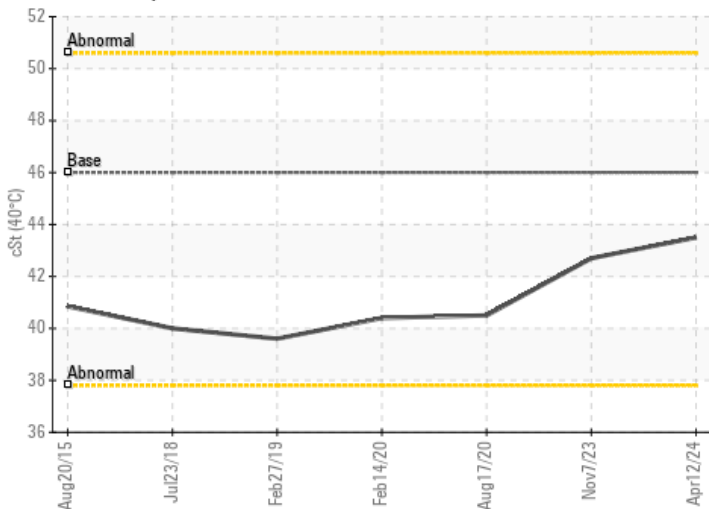
Ferrous Alloys



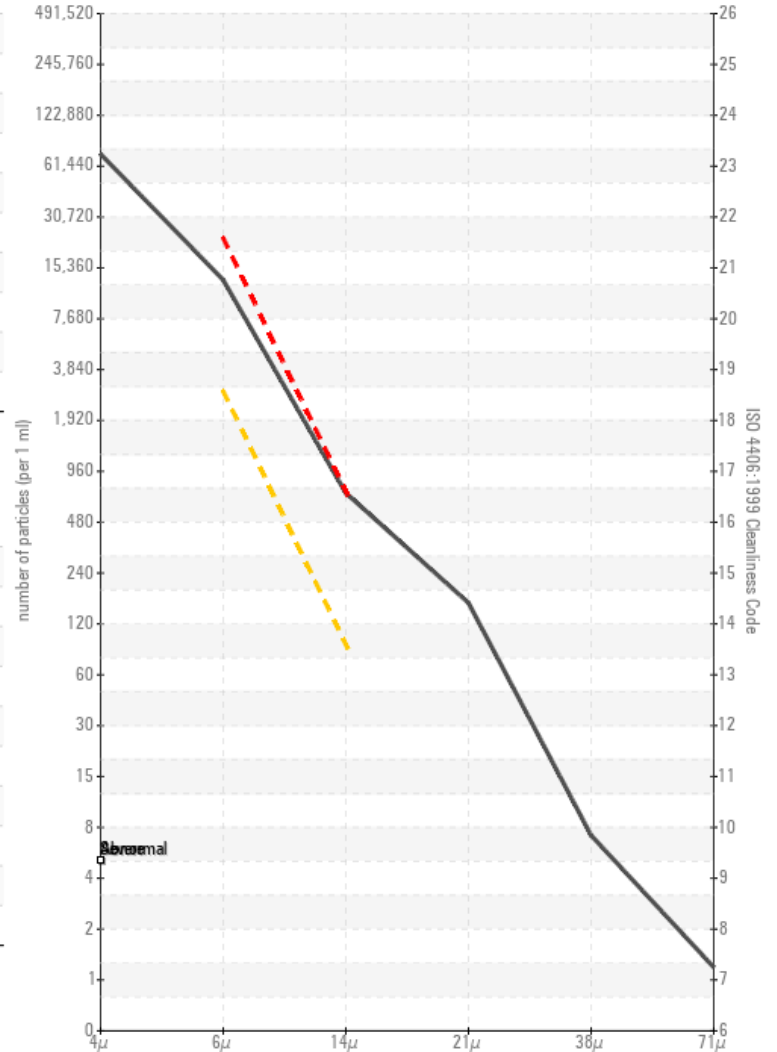
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

