



CONSTRUCTION EQUIPMENT

VOLVO EC250E 310119 - HYDRAULIC SYSTEM



Sample No: VCP449590
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP449590	VCP216029	VCP193568	VCP197260
Sample Date	22 Jun 2024	15 Nov 2017	07 Apr 2017	12 Oct 2016
Machine Hours	14587	4665	3028	1753
Oil Hours	0	0	2000	0
Oil Changed	Not Chngd	Changed	Changed	Not Chngd
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

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 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
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OIL CONDITION

Visc @ 40°C	cSt	48.1	41.38	44.62	45.42
Acid Number (AN)	mg KOH/g	0.36	0.457	0.713	0.847



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles 5-15µm	count	---	---	8813	---
Particles 15-25µm	count	---	---	560	---
Particles 25-50µm	count	---	---	352	---
Particles 50-100µm	count	---	---	109	---
Particles > 100µm	count	---	---	360	---
NAS Code		---	---	11	---
Particles >4µm		47925	1304	1260	98
Particles >6µm		15536	259	134	53
Particles >14µm		1477	19	26	9
ISO 4406:1999 (c)		23/21/18	18/15/11	17/14/12	14/13/10
Silicon	ppm	2	11	12	8
Sodium	ppm	<1	4	3	2
Potassium	ppm	<1	4	2	<1

Diagnosis

The 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 light 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.



WEAR METALS

Iron	ppm	1	7	5	3
Copper	ppm	3	11	17	13
Lead	ppm	0	0	1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	1	1	<1
Chromium	ppm	0	3	2	<1
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	18	127	129	122
Magnesium	ppm	4	5	3	3
Zinc	ppm	330	535	620	632
Phosphorus	ppm	294	406	505	506
Barium	ppm	0	0	<1	<1
Boron	ppm	0	2	1	2

Depot: VOLVO0090
Unique No: 11099324
Signed: Wes Davis
Report Date: 27 Jun 2024

Contact/Location: TODD LARK - VOLVO0090

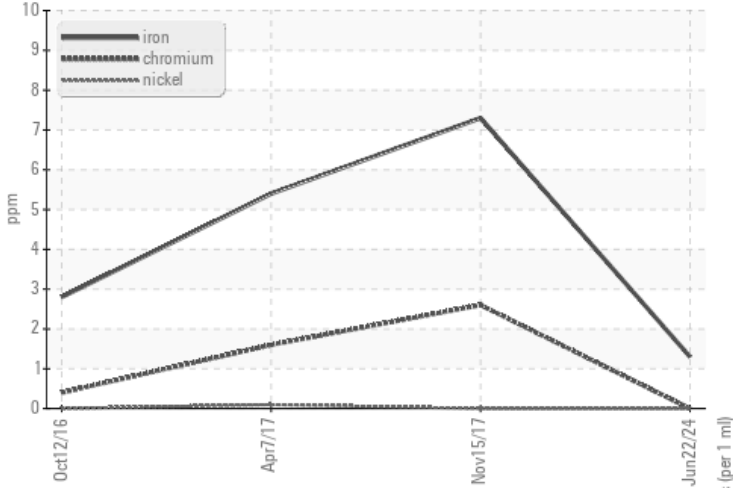


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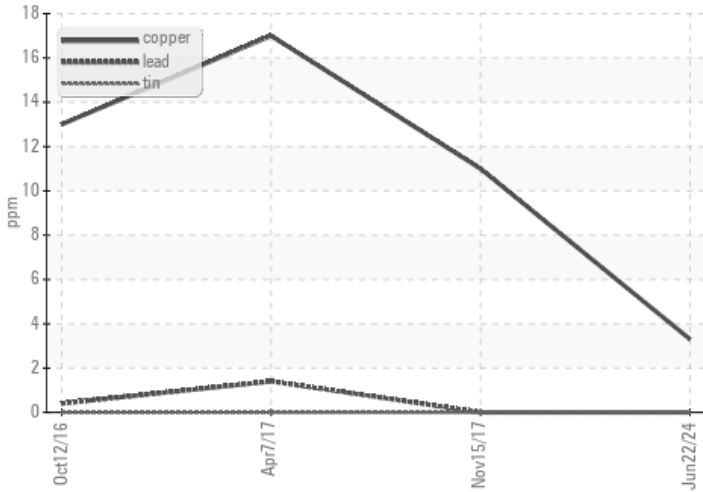


GRAPHS

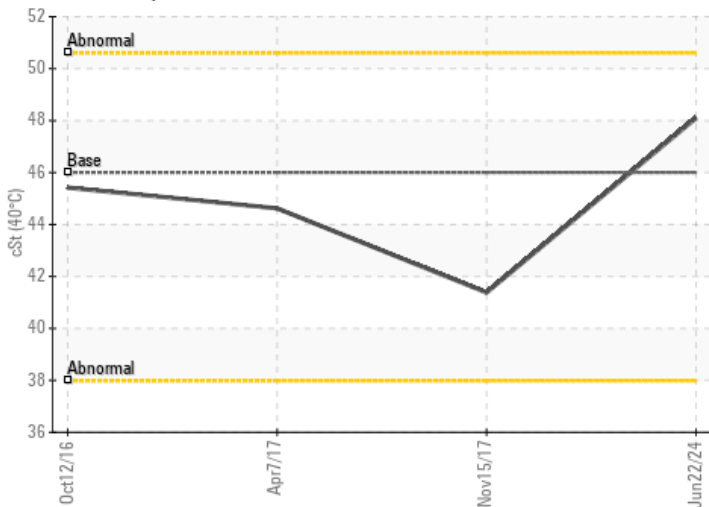
Ferrous Alloys



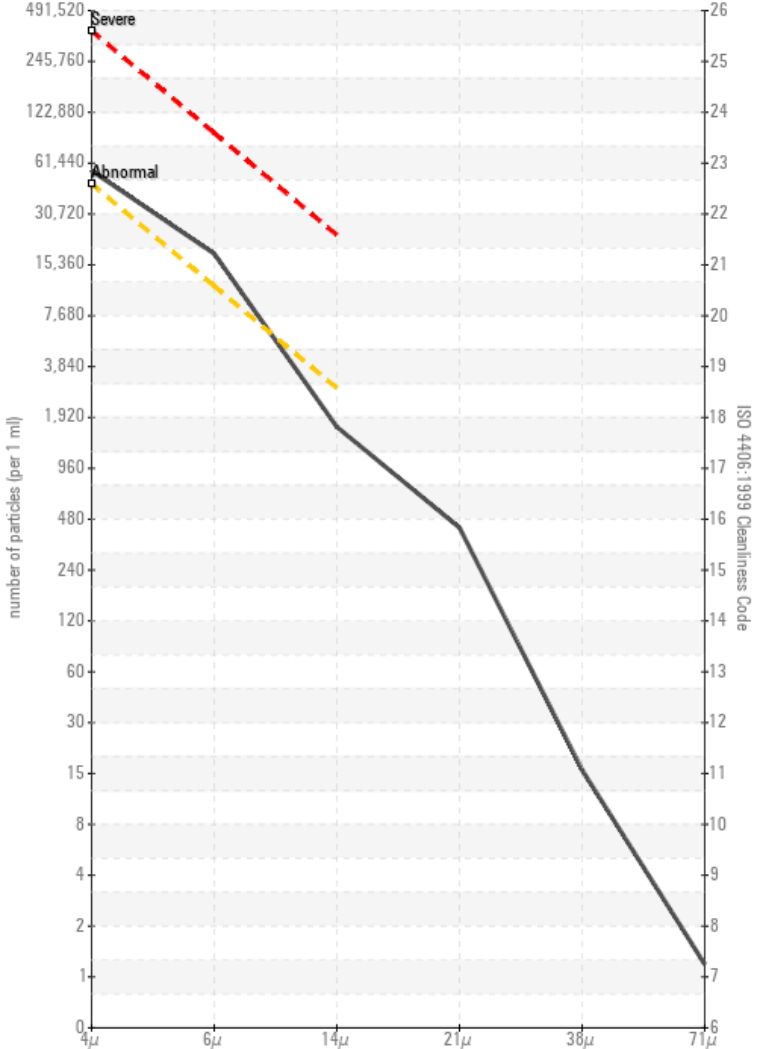
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

