



CONSTRUCTION EQUIPMENT

VOLVO EC145EL 314052 - HYDRAULIC SYSTEM



Sample No: VCP443010
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP443010	VCP411632	VCP359403	VCP344366
Sample Date	08 Jun 2024	01 Jun 2023	03 May 2022	27 Oct 2021
Machine Hours	3495	2501	1470	1001
Oil Hours	0	0	1470	1500
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ATTENTION	ATTENTION	ATTENTION	ABNORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	41.9	42.2	43.7	44.2
Acid Number (AN)	mg KOH/g	0.48	0.41	0.53	0.442



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		6079	5096	6031	11204
Particles >6µm		1616	977	1445	1096
Particles >14µm		124	39	100	25
ISO 4406:1999 (c)		20/18/14	20/17/12	20/18/14	21/17/12
Silicon	ppm	2	2	2	2
Sodium	ppm	1	<1	<1	<1
Potassium	ppm	<1	0	0	0

Diagnosis

We recommend you service the filters on this component. 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	5	3	1	2
Copper	ppm	32	36	54	55
Lead	ppm	0	0	1	1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	2	3	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	84	100	59	67
Magnesium	ppm	5	9	<1	<1
Zinc	ppm	454	411	432	469
Phosphorus	ppm	371	373	383	385
Barium	ppm	0	0	0	0
Boron	ppm	0	0	<1	1

Depot: RIPTAM
Unique No: 11082869
Signed: Wes Davis
Report Date: 17 Jun 2024

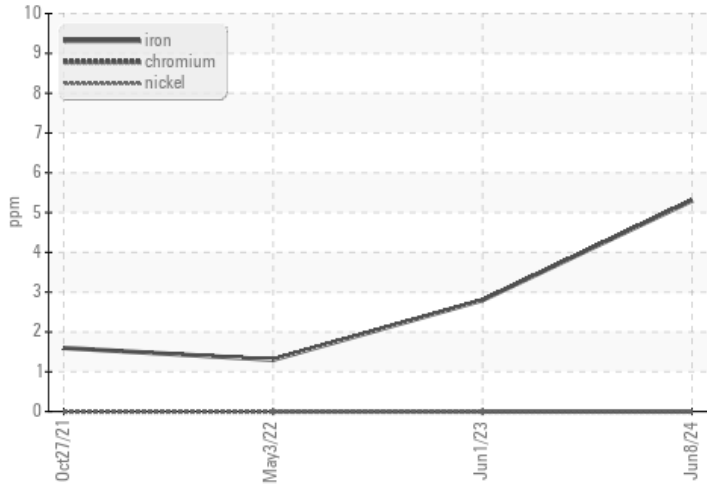


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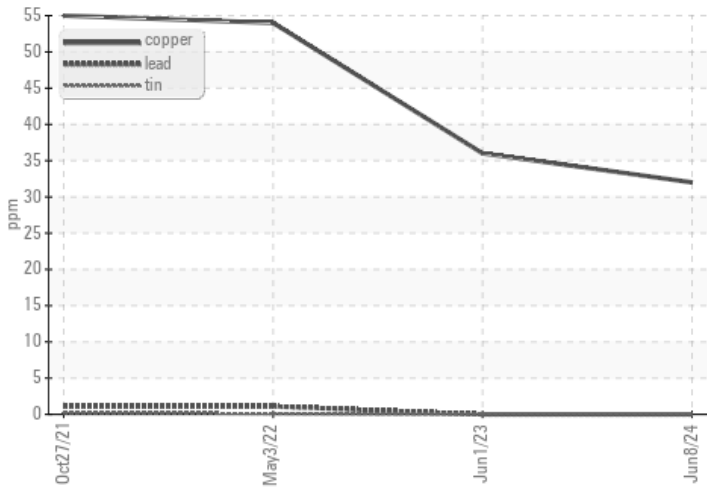


VOLVO GRAPHS

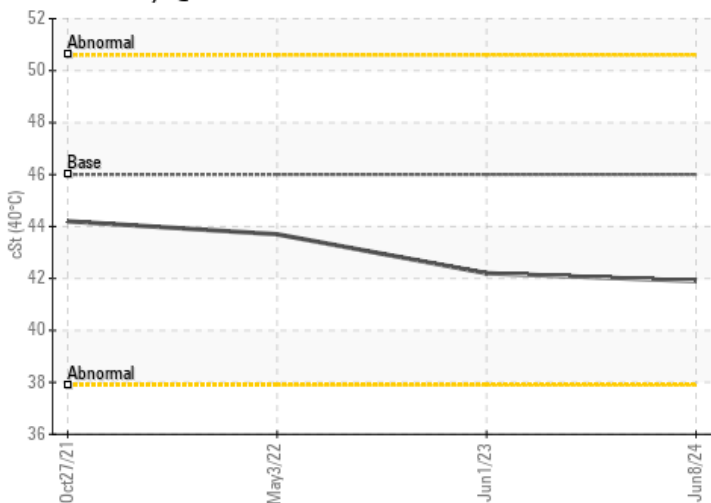
Ferrous Alloys



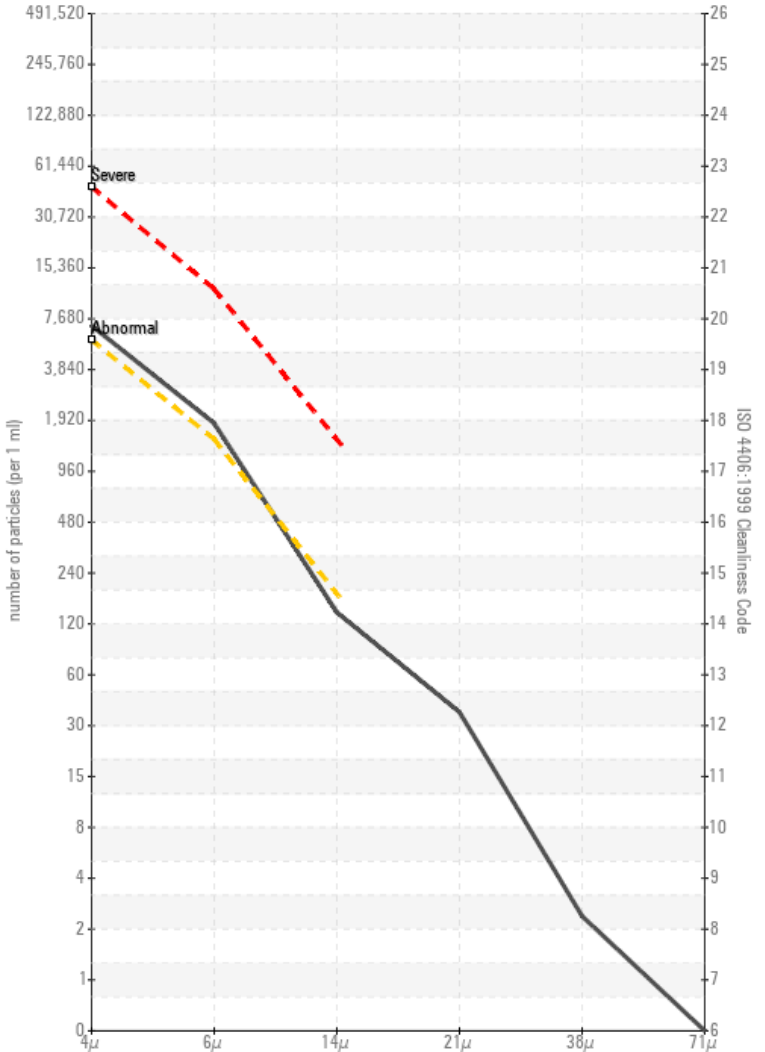
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

