



CONSTRUCTION EQUIPMENT

W124640 VOLVO EC460 11065 - HYDRAULIC SYSTEM



Sample No: VCP279715
Oil Type: VOLVO HYDRO
Job No: W124640



SAMPLE INFORMATION

Sample Number	VCP279715	VCP265868	VCP214346	VCP213531
Sample Date	29 Sep 2020	16 Dec 2019	25 Jan 2019	30 Jan 2018
Machine Hours	14708	9900	9210	8939
Oil Hours	0	0	750	2000
Oil Changed	N/A	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT

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 SYRACUSE, NY
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OIL CONDITION

Visc @ 40°C	cSt	45.8	---	46.48	47.54
Acid Number (AN)	mg KOH/g	0.411	---	0.432	0.300



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		19901	---	12033	22447
Particles >6µm		4811	---	1457	1551
Particles >14µm		313	---	84	104
ISO 4406:1999 (c)		21/19/15	---	21/18/14	22/18/14
Silicon	ppm	2	2	3	4
Sodium	ppm	0	<1	0	<1
Potassium	ppm	<1	3	2	<1

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	3	3	3	5
Copper	ppm	2	2	1	1
Lead	ppm	<1	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	5	2	3	3
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	215	231	232	256
Magnesium	ppm	30	9	12	16
Zinc	ppm	422	409	355	315
Phosphorus	ppm	346	335	304	291
Barium	ppm	0	0	0	0
Boron	ppm	5	6	5	4

Depot: VOLV00142
Unique No: 9205109
Signed: Wes Davis
Report Date: 09 Oct 2020

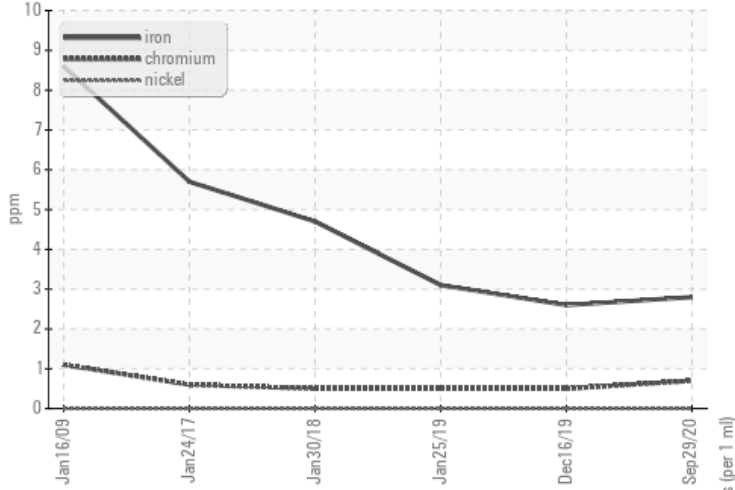


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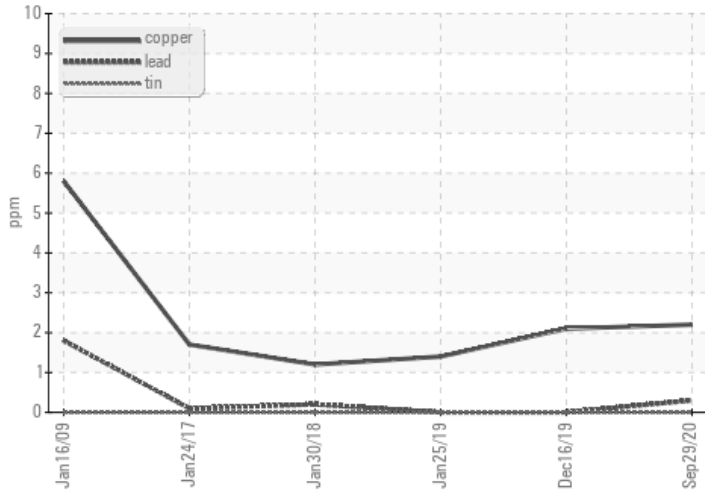


GRAPHS

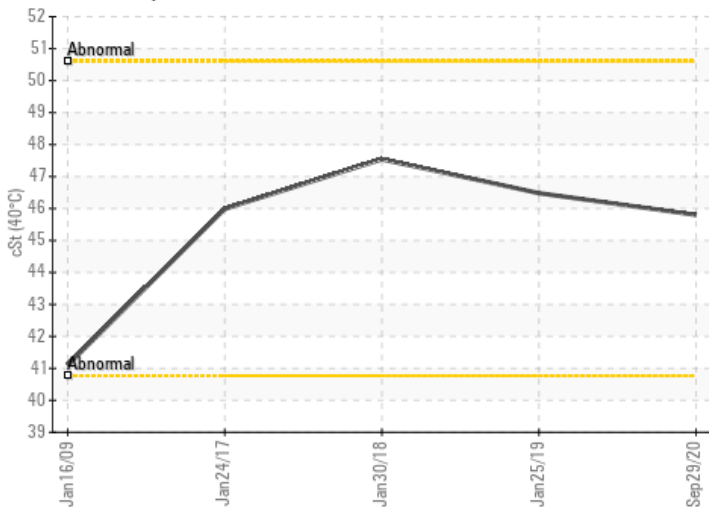
Ferrous Alloys



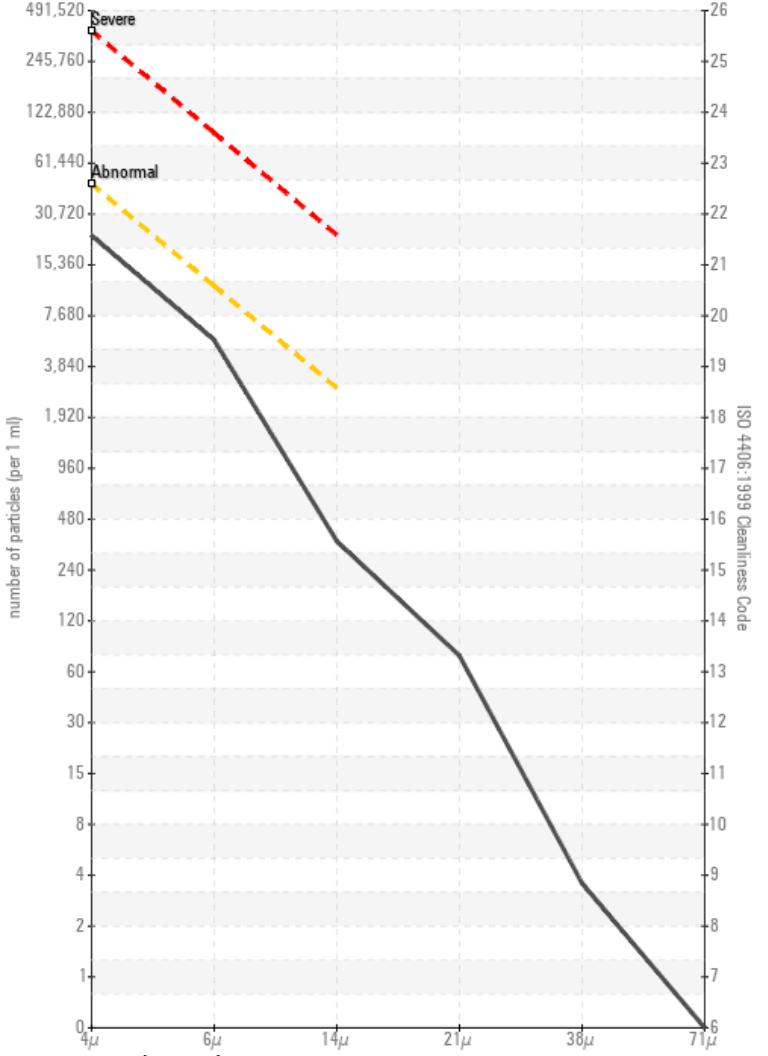
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

