



CONSTRUCTION EQUIPMENT

A10932 ALPHA VOLVO EC160E 314175 - HYDRAULIC SYSTEM



Sample No: VCP426954
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A10932 ALPHA



SAMPLE INFORMATION

Sample Number	VCP426954	VCP399926	VCP365746	VCP364143
Sample Date	16 Aug 2023	02 Mar 2023	01 Dec 2022	22 Aug 2022
Machine Hours	5360	4350	3841	3317
Oil Hours	1000	2000	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	ATTENTION	SEVERE

HOFFMAN EQUIPMENT - LIONVILLE
 120 GORDON DRIVE
 LIONVILLE, PA
 US 19341
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OIL CONDITION

Visc @ 40°C	cSt	41.8	38.7	---	39.8
Acid Number (AN)	mg KOH/g	0.94	1.03	---	1.37



CONTAMINATION

Particles >4µm		10619	2264	▲ 71547	2874
Particles >6µm		482	292	▲ 14883	479
Particles >14µm		12	19	352	25
ISO 4406:1999 (c)		21/16/11	18/15/11	23/21/16	19/16/12
Silicon	ppm	3	5	4	14
Sodium	ppm	<1	1	1	2
Potassium	ppm	0	0	0	2

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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	3	5	4	123
Copper	ppm	19	34	24	<1
Lead	ppm	<1	0	<1	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	2	1	3
Chromium	ppm	2	<1	<1	2
Molybdenum	ppm	<1	<1	<1	0
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	1	4
Manganese	ppm	<1	<1	<1	4
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1532	2555	2085	10
Magnesium	ppm	8	6	6	2
Zinc	ppm	810	1122	1012	33
Phosphorus	ppm	672	1006	843	404
Barium	ppm	0	0	0	4
Boron	ppm	0	<1	2	9

Depot: VOLVO8879
Unique No: 10617993
Signed: Angela Borella
Report Date: 25 Aug 2023

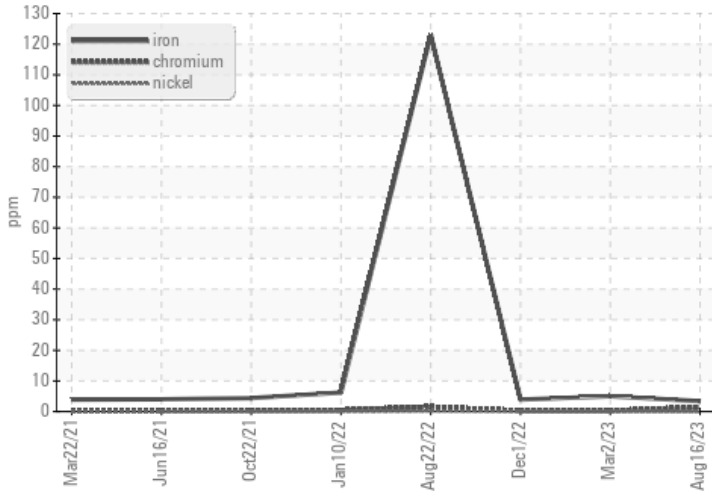


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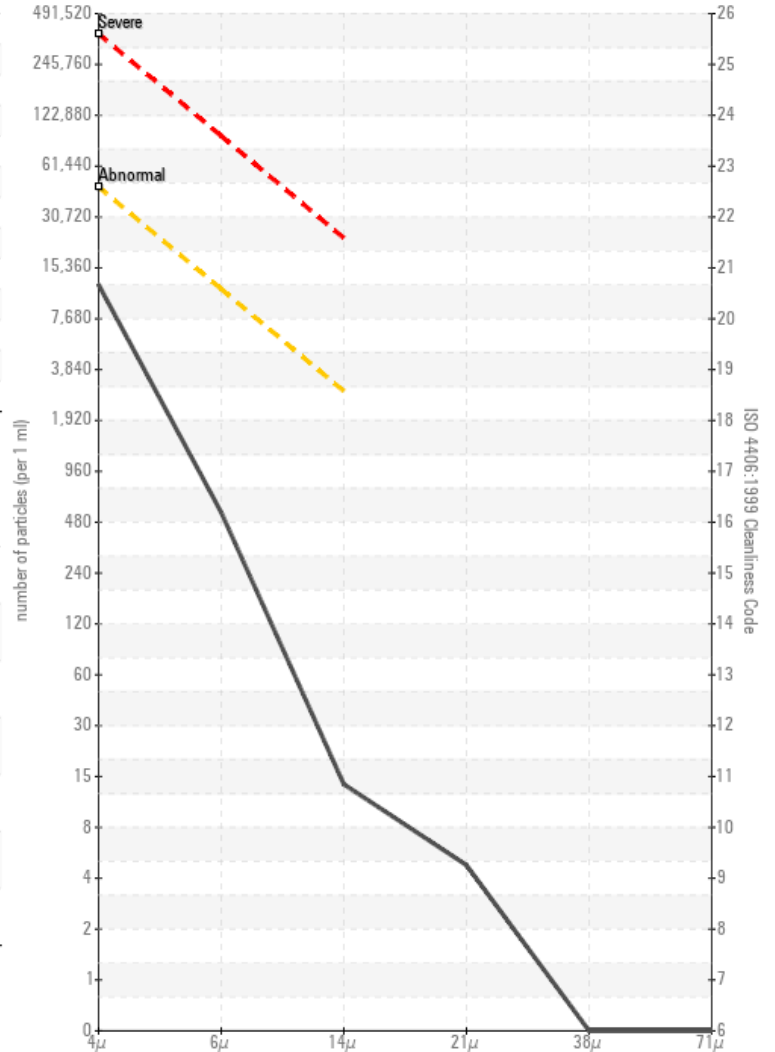


GRAPHS

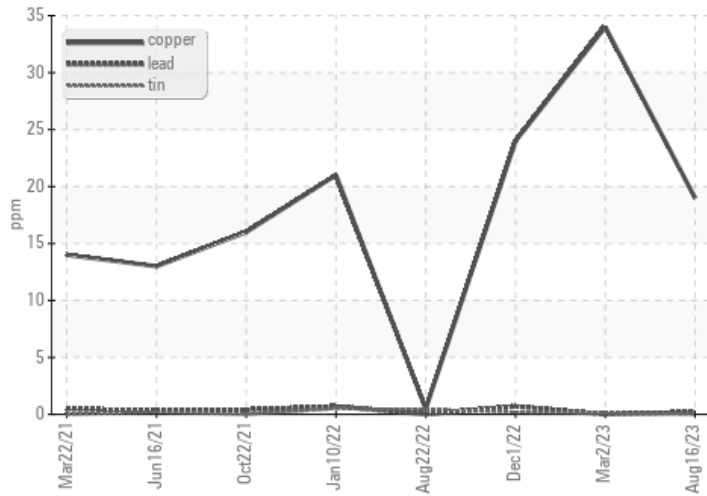
Ferrous Alloys



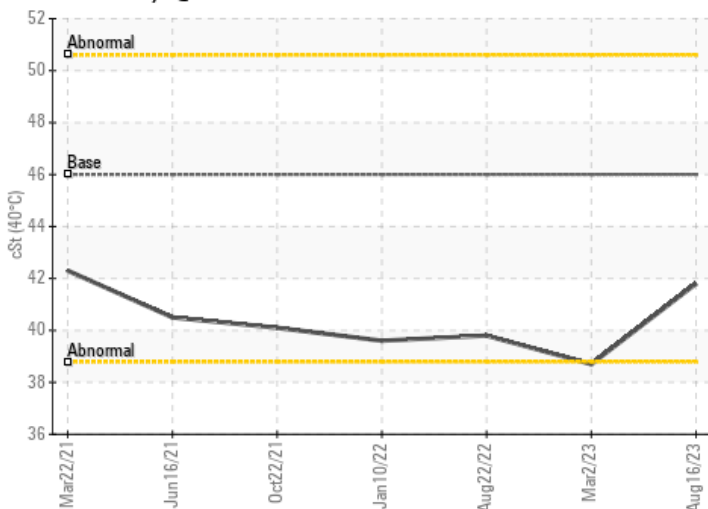
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

