



CONSTRUCTION EQUIPMENT

VOLVO L120E 64854 - HYDRAULIC SYSTEM



Sample No: VC345402
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VC345402	VC341052	VC341043	VC355620
Sample Date	02 Feb 2009	05 Jan 2009	30 Jul 2008	14 Feb 2008
Machine Hours	6186	5862	5151	4061
Oil Hours	1726	1402	691	2449
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

VILLE DE THETFORD
 144 RUE NOTRE DAME SUD
 THETFORD, QC
 CA G8G 5T3
 Contact: Andre Arevin



OIL CONDITION

Visc @ 40°C	cSt	▲ 39.3	▲ 38.2	▲ 38.3	■ 40.9
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T: (418)335-2981
 F: (418)338-9139



CONTAMINATION

Particles >4µm		424	946	1034	53625
Particles >6µm		■ 103	■ 153	■ 141	▲ 19696
Particles >14µm		■ 14	■ 13	■ 11	▲ 540
ISO 4406:1999 (c)		16/14/11	17/14/11	17/14/11	23/21/16
Silicon	ppm	■ 2	■ 3	■ 3	■ 4
Sodium	ppm	■ 3	■ 5	■ 2	■ 3
Potassium	ppm	■ 0	■ <1	■ 0	■ 0

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 viscosity of the oil is low indicating either Viscosity Index (VI) Improvers shearing, or the addition of a lighter grade oil.



WEAR METALS

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



ADDITIVES

Calcium	ppm	258	322	341	454
Magnesium	ppm	16	22	24	9
Zinc	ppm	479	459	471	532
Phosphorus	ppm	381	369	385	448
Barium	ppm	<1	<1	<1	<1
Boron	ppm	5	6	9	13

Depot: VILTHE
Unique No: 2841139
Signed:
Report Date: 12 Feb 2009

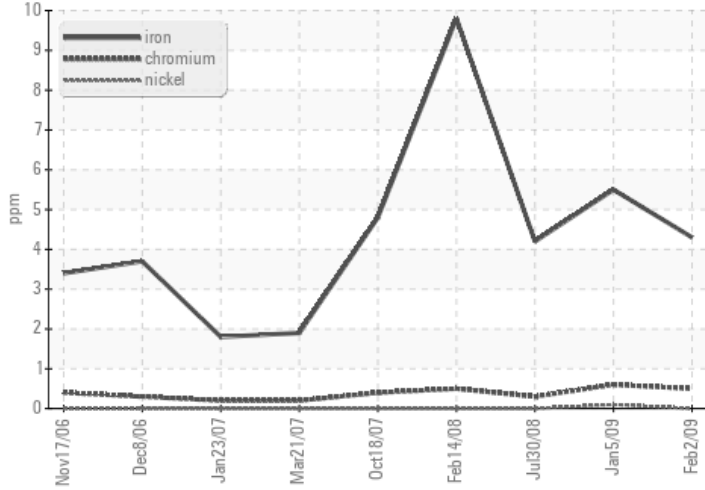


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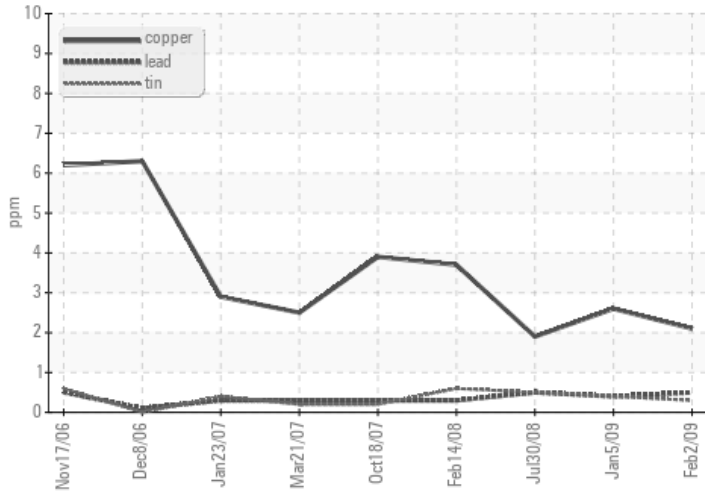


GRAPHS

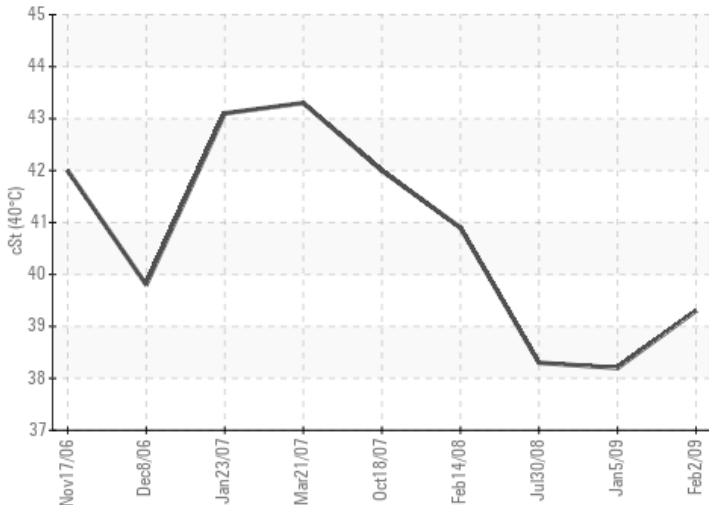
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

