



CONSTRUCTION EQUIPMENT

636308-01 VOLVO 6157 - HYDRAULIC SYSTEM



Sample No: VCE187702
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 636308-01



SAMPLE INFORMATION

Sample Number	VCE187702	VCP123037	---	---
Sample Date	19 Jun 2013	09 Dec 2011	---	---
Machine Hours	8157	5932	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

RIDEAU BULK TERMINALS
 6960 4TH LINE ROAD,, OLD HWY 16
 KEMPTVILLE, ON
 CA K0G 1J0
 Contact: Mark Yelle
 myelle@rideaubulk.com
 T: (613)489-1440
 F: (613)489-1428



OIL CONDITION

Visc @ 40°C	cSt	▲ 32.8	▲ 34.9	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		8690	7778	---	---
Particles >6µm		■ 1468	■ 1716	---	---
Particles >14µm		■ 34	▲ 184	---	---
ISO 4406:1999 (c)		20/18/12	20/18/15	---	---
Silicon	ppm	■ 4	■ 3	---	---
Sodium	ppm	■ 19	■ 11	---	---
Potassium	ppm	■ 0	■ 2	---	---

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. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	■ 6	■ 5	---	---
Copper	ppm	■ 2	■ 2	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ 0	■ 0	---	---
Aluminum	ppm	■ <1	■ <1	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 1	■ <1	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	2	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ 0	■ 0	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 196	■ 111	---	---
Magnesium	ppm	■ 4	■ 11	---	---
Zinc	ppm	■ 450	■ 397	---	---
Phosphorus	ppm	■ 365	■ 312	---	---
Barium	ppm	■ <1	■ 0	---	---
Boron	ppm	■ 6	■ 2	---	---

Depot: RIDNOR
Unique No: 3739228
Signed: Bill Quesnel
Report Date: 25 Jun 2013

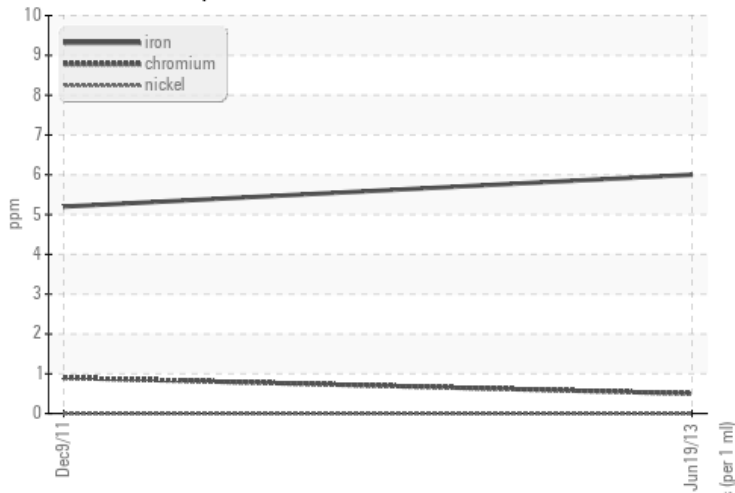


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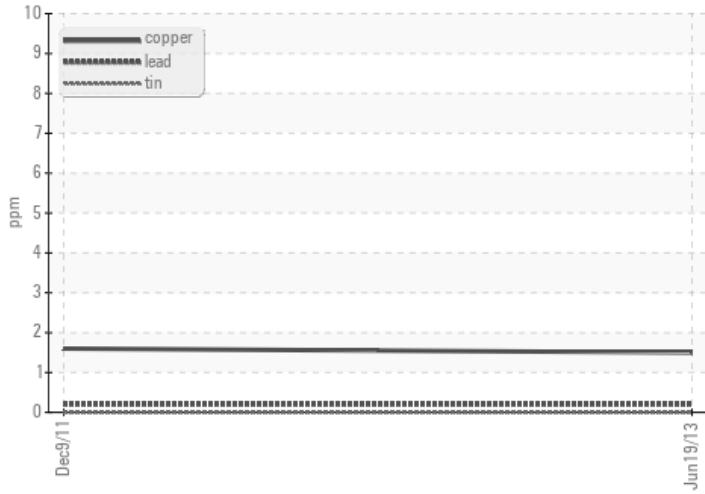


GRAPHS

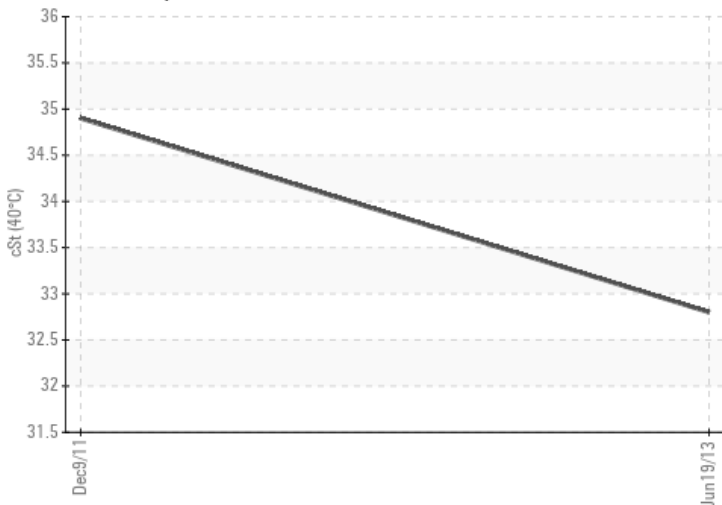
Ferrous Alloys



Non-ferrous Metals



▲ Viscosity @ 40°C



Particle Count

