



CONSTRUCTION EQUIPMENT

VOLVO A40F 1 2 13 - HYDRAULIC SYSTEM



Sample No: VCE159409

Oil Type: {unknown}

Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | VCE159409 | VCE114696 | --- | --- |
| Sample Date | 27 Jun 2012 | 09 May 2012 | --- | --- |
| Machine Hours | 1568 | 1047 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | N/A | N/A | --- | --- |
| Sample Status | NORMAL | NORMAL | --- | --- |

ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
 NEW HUDSON, MI
 US 48165
 Contact: PAUL ELZERMAN
 paul.elzerman@altaequipment.com
 T: (248)356-5200
 F: (248)356-2029



OIL CONDITION

| | | | | | |
|------------------|----------|--------------|-------|-----|-----|
| Visc @ 40°C | cSt | 42.13 | 41.89 | --- | --- |
| Acid Number (AN) | mg KOH/g | 0.438 | 0.630 | --- | --- |



CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Particles >4µm | | 383 | 467 | --- | --- |
| Particles >6µm | | 209 | 254 | --- | --- |
| Particles >14µm | | 35 | 43 | --- | --- |
| ISO 4406:1999 (c) | | 16/15/12 | 16/15/13 | --- | --- |
| Silicon | ppm | 13 | 9 | --- | --- |
| Sodium | ppm | 0 | <1 | --- | --- |
| Potassium | ppm | 0 | 10 | --- | --- |

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 is acceptable. There is no indication of any contamination in the component. The condition of oil is suitable for further service.



WEAR METALS

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



ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 46 | 52 | --- | --- |
| Magnesium | ppm | 0 | 0 | --- | --- |
| Zinc | ppm | 598 | 534 | --- | --- |
| Phosphorus | ppm | 540 | 450 | --- | --- |
| Barium | ppm | 0 | 0 | --- | --- |
| Boron | ppm | 0 | <1 | --- | --- |

Depot: VOLVO2990
Unique No: 5960270
Signed: Don Baldrige
Report Date: 03 Jul 2012

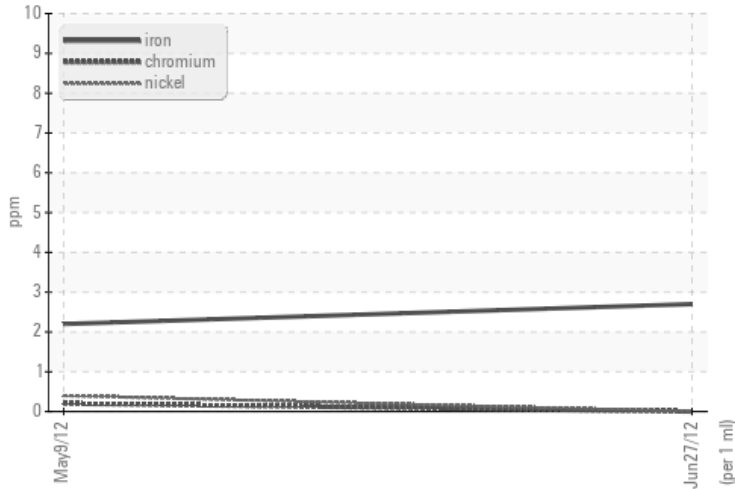


CONSTRUCTION EQUIPMENT

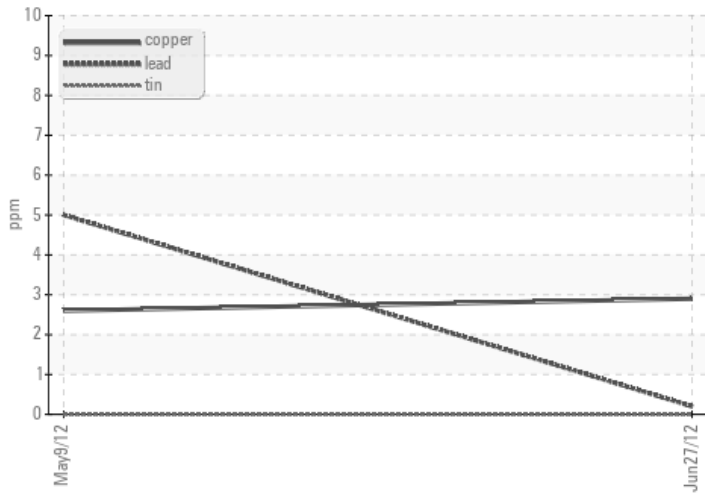


GRAPHS

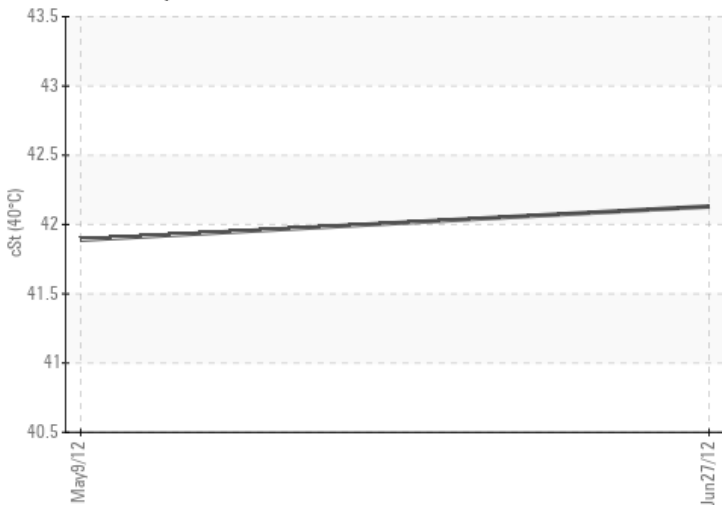
Ferrous Alloys



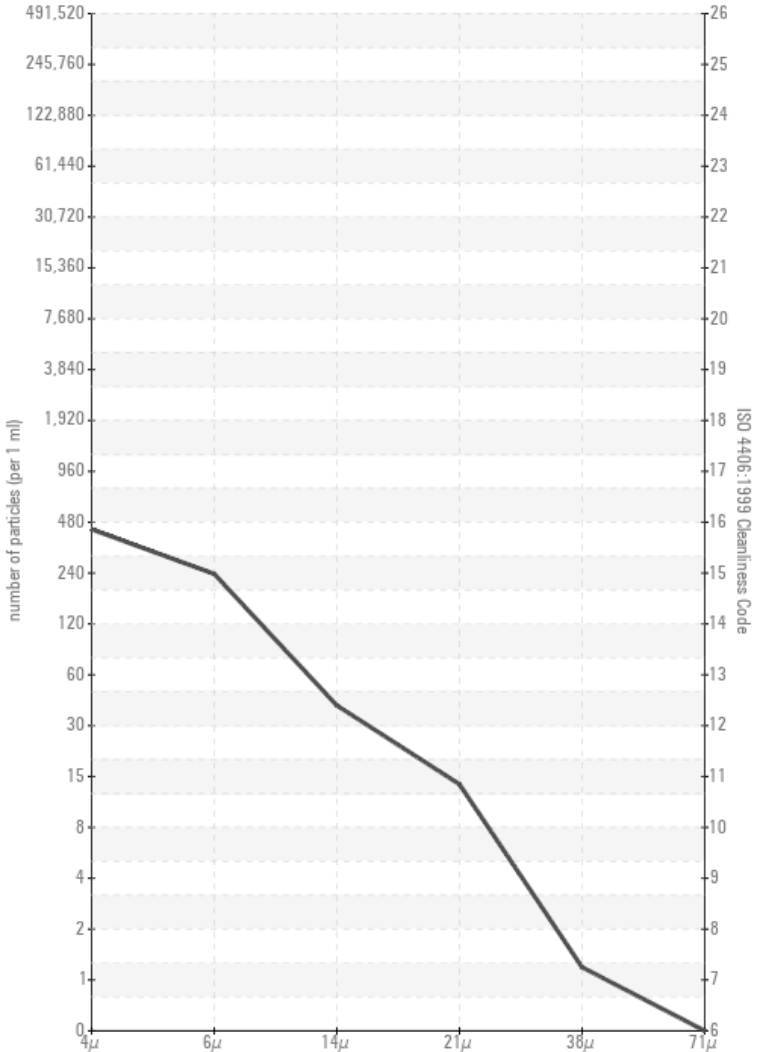
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

