



CONSTRUCTION EQUIPMENT

A08851 VOLVO A30G 740076 - HYDRAULIC SYSTEM



Sample No: VCP378630
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A08851



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP378630 | VCP287933 | VCP228849 | VCP194163 |
| Sample Date | 18 Sep 2022 | 29 Oct 2020 | 28 Jun 2018 | 03 Aug 2017 |
| Machine Hours | 5485 | 4280 | 2760 | 2170 |
| Oil Hours | 1000 | 4000 | 2760 | 2170 |
| Oil Changed | Not Changd | Changed | Not Changd | Not Changd |
| Sample Status | ABNORMAL | ATTENTION | NORMAL | NORMAL |

K C CONSTRUCTION
 1737 STOUT DRIVE
 IVYLAND, PA
 US 18974
 Contact: DUKE D.
 duked@kcconstruct.com
 T: (267)784-7337
 F: x:



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|-------|-------|-------|
| Visc @ 40°C | cSt | 43.5 | 44.3 | 47.78 | 46.89 |
| Acid Number (AN) | mg KOH/g | 0.44 | 0.616 | 0.450 | 0.399 |



CONTAMINATION

| | | | | | |
|--------------------|-------|-----------------|----------|----------|----------|
| Particles 5-15µm | count | --- | --- | --- | 31687 |
| Particles 15-25µm | count | --- | --- | --- | 948 |
| Particles 25-50µm | count | --- | --- | --- | 58 |
| Particles 50-100µm | count | --- | --- | --- | 24 |
| Particles >100µm | count | --- | --- | --- | 502 |
| NAS Code | | --- | --- | --- | 11 |
| Particles >4µm | | 8856 | 10046 | 1217 | 1534 |
| Particles >6µm | | 3682 | 2668 | 299 | 369 |
| Particles >14µm | | 413 | 290 | 27 | 31 |
| ISO 4406:1999 (c) | | 20/19/16 | 21/19/15 | 17/15/12 | 18/16/12 |
| Silicon | ppm | 6 | 8 | 9 | 8 |
| Sodium | ppm | 3 | 0 | 2 | 2 |
| Potassium | ppm | 0 | 0 | 4 | <1 |

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present 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 | 6 | 9 | 9 | 7 |
| Copper | ppm | 4 | 5 | 5 | 5 |
| Lead | ppm | 2 | 3 | 3 | 3 |
| Tin | ppm | <1 | 0 | 0 | 2 |
| Aluminum | ppm | 2 | 2 | 2 | 2 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | <1 | <1 | 0 | 0 |
| Nickel | ppm | 0 | <1 | 1 | <1 |
| Titanium | ppm | 0 | <1 | <1 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 0 | <1 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------------|------|-----|-----|
| Calcium | ppm | 809 | 1204 | 72 | 67 |
| Magnesium | ppm | 4 | 6 | 1 | 0 |
| Zinc | ppm | 563 | 672 | 432 | 444 |
| Phosphorus | ppm | 468 | 520 | 333 | 347 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 3 | 0 | <1 | <1 |

Depot: KCCIVY
Unique No: 10141660
Signed: Angela Borella
Report Date: 22 Sep 2022

Contact/Location: DUKE D. - KCCIVY

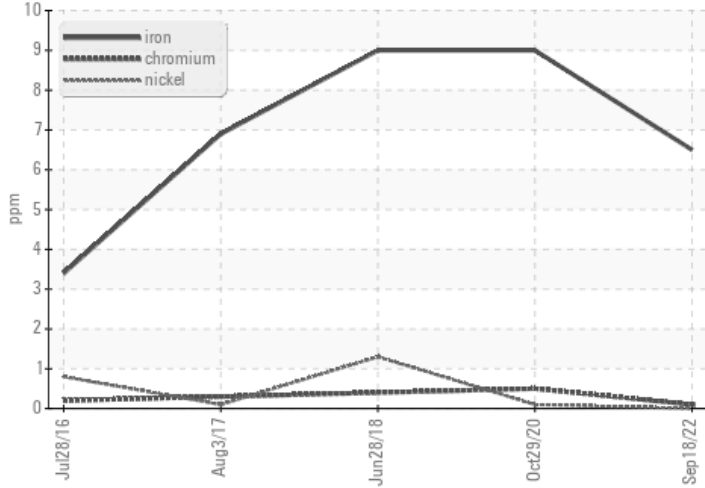


CONSTRUCTION EQUIPMENT

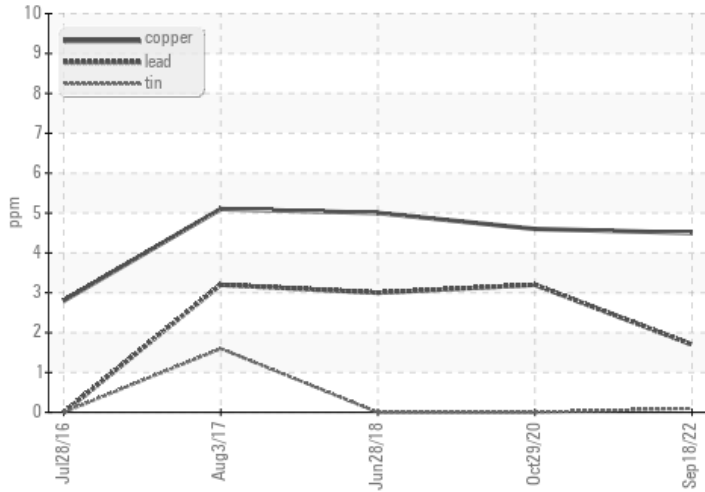


GRAPHS

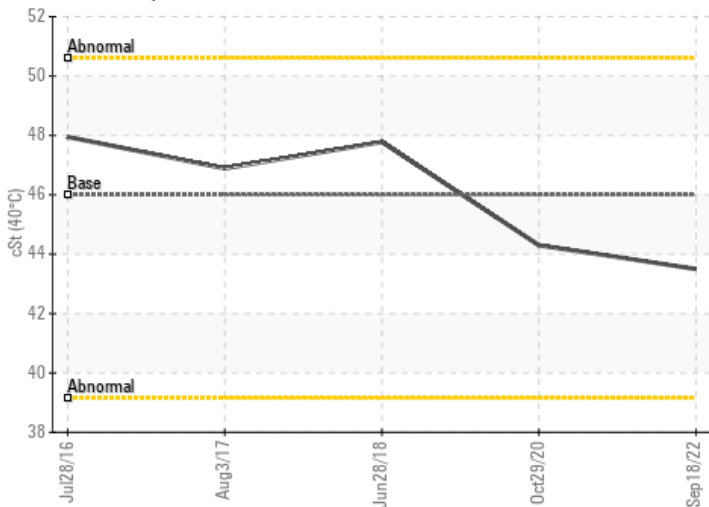
Ferrous Alloys



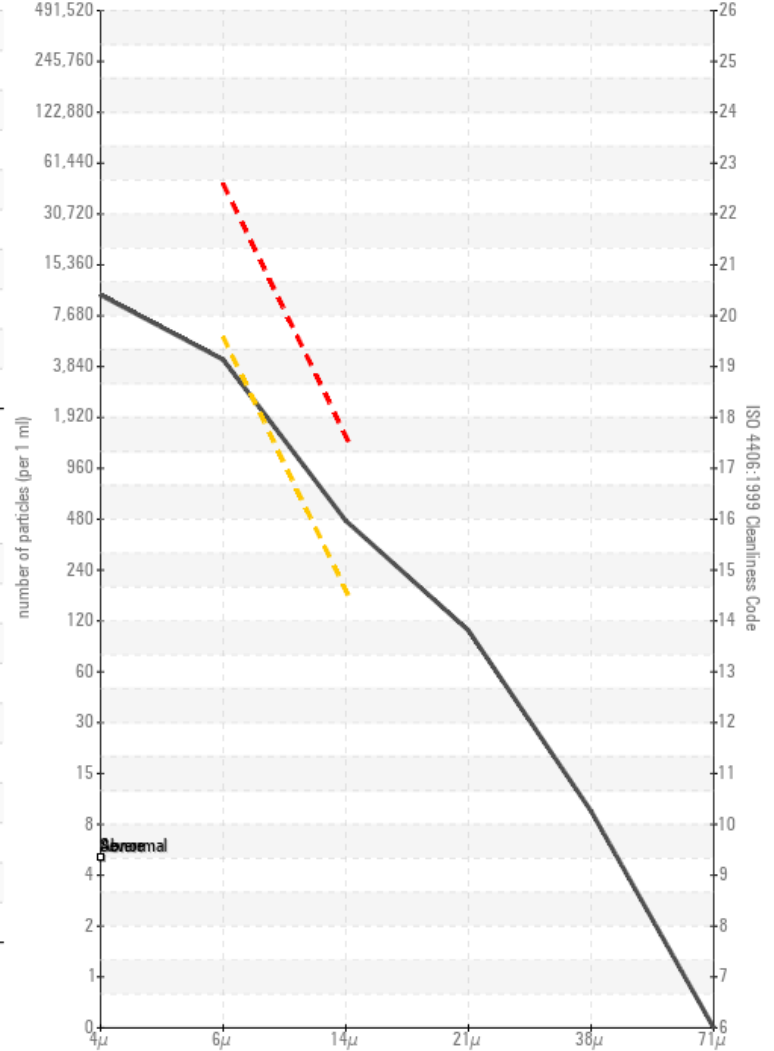
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

