



CONSTRUCTION EQUIPMENT

662069 VOLVO A35F 10350 - HYDRAULIC SYSTEM



Sample No: VCP452447
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 662069



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP452447 | VCP322136 | VCP233719 | VCP178890 |
| Sample Date | 01 Feb 2024 | 18 Jun 2021 | 05 Sep 2019 | 24 Jan 2016 |
| Machine Hours | 12432 | 11179 | 10039 | 4079 |
| Oil Hours | 4000 | 1000 | 2000 | 0 |
| Oil Changed | Changed | Not Changd | Not Changd | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
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 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:

OIL CONDITION

| | | | | | |
|------------------|----------|-------------|-------|-------|-------|
| Visc @ 40°C | cSt | 42.6 | 41.1 | 39.8 | 39.29 |
| Acid Number (AN) | mg KOH/g | 0.95 | 0.520 | 0.412 | 0.449 |

CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|----------|----------|
| Water | % | NEG | NEG | NEG | NEG |
| Particles >4µm | | 4926 | 1295 | 3506 | 890 |
| Particles >6µm | | 537 | 216 | 607 | 485 |
| Particles >14µm | | 23 | 11 | 38 | 82 |
| ISO 4406:1999 (c) | | 19/16/12 | 17/15/11 | 19/16/12 | 17/16/14 |
| Silicon | ppm | 10 | 11 | 14 | 14 |
| Sodium | ppm | 4 | 3 | <1 | 1 |
| Potassium | ppm | 1 | 0 | 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 10 | 10 | 21 | 13 |
| Copper | ppm | 10 | 6 | 8 | 5 |
| Lead | ppm | 6 | 3 | 3 | 2 |
| Tin | ppm | <1 | <1 | <1 | 0 |
| Aluminum | ppm | 1 | 1 | 2 | <1 |
| Chromium | ppm | 0 | <1 | <1 | <1 |
| Molybdenum | ppm | <1 | 3 | <1 | 0 |
| Nickel | ppm | <1 | 0 | 0 | 0 |
| Titanium | ppm | <1 | <1 | <1 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | <1 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | <1 |

ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 228 | 133 | 85 | 53 |
| Magnesium | ppm | 32 | 34 | 6 | 2 |
| Zinc | ppm | 513 | 466 | 468 | 390 |
| Phosphorus | ppm | 405 | 367 | 358 | 303 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 8 | 10 | 1 | 0 |

Depot: RIPTAM
Unique No: 10901137
Signed: Don Baldrige
Report Date: 01 Mar 2024

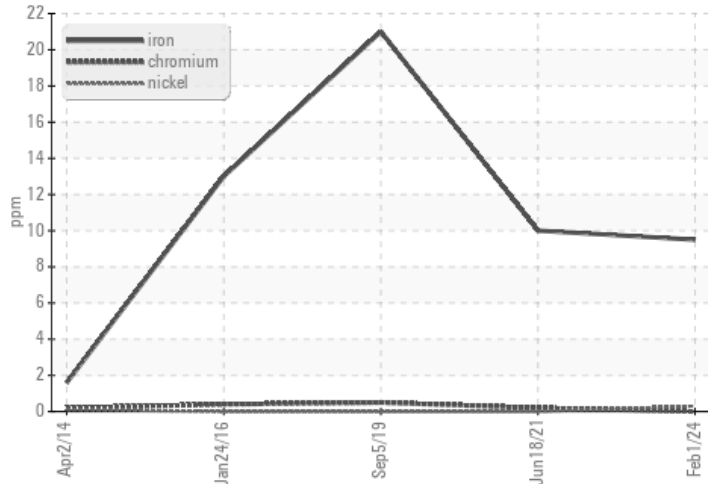


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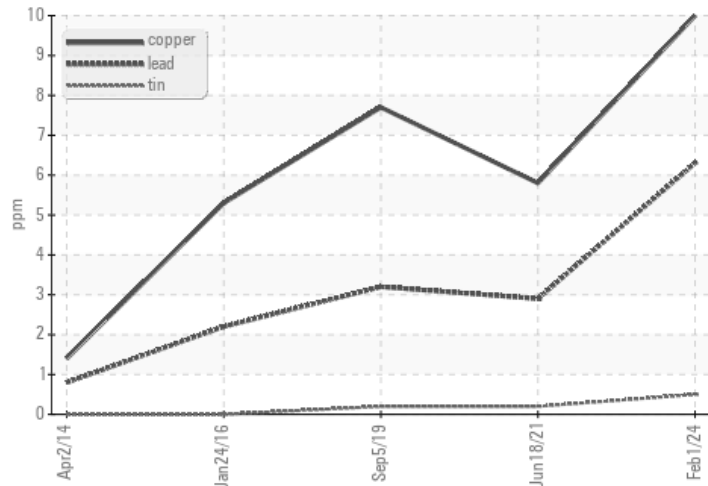


GRAPHS

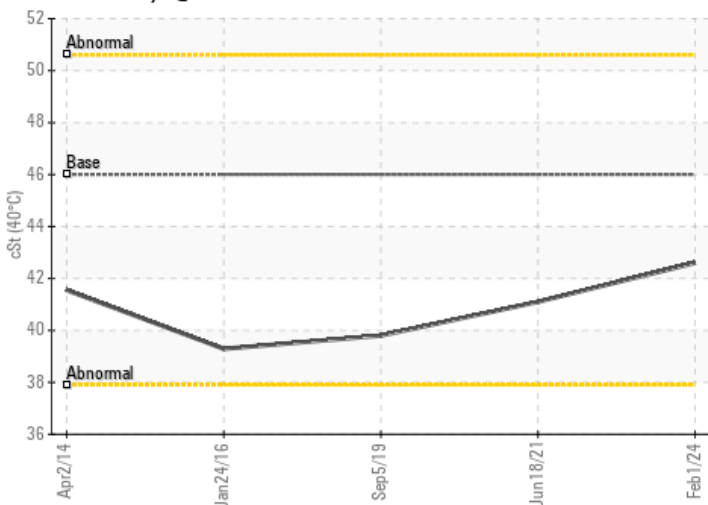
Ferrous Alloys



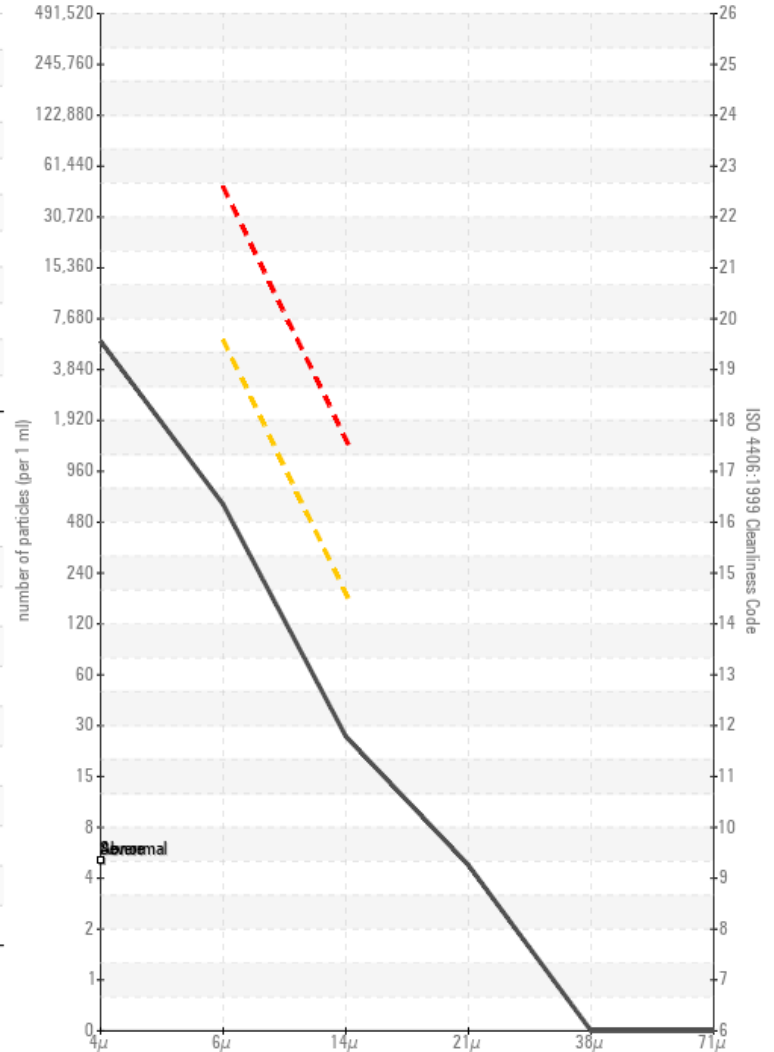
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

