



CONSTRUCTION EQUIPMENT

X58161 VOLVO ECR235EL 311537 - HYDRAULIC SYSTEM



Sample No: VCP322920
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: X58161



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | VCP322920 | VCP347578 | --- | --- |
| Sample Date | 07 Jul 2023 | 17 Feb 2022 | --- | --- |
| Machine Hours | 4049 | 2741 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Changed | Not Changd | --- | --- |
| Sample Status | NORMAL | NORMAL | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|-----|-----|
| Visc @ 40°C | cSt | 37.8 | 41.4 | --- | --- |
| Acid Number (AN) | mg KOH/g | 0.34 | 0.43 | --- | --- |



CONTAMINATION

| | | | | | |
|-------------------|-----|-----------------|----------|-----|-----|
| Particles >4µm | | 2850 | 5560 | --- | --- |
| Particles >6µm | | 166 | 1182 | --- | --- |
| Particles >14µm | | 6 | 98 | --- | --- |
| ISO 4406:1999 (c) | | 19/15/10 | 20/17/14 | --- | --- |
| Silicon | ppm | 2 | 2 | --- | --- |
| Sodium | ppm | 0 | <1 | --- | --- |
| Potassium | ppm | 0 | <1 | --- | --- |

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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 | 4 | <1 | --- | --- |
| Copper | ppm | 28 | 26 | --- | --- |
| Lead | ppm | 0 | <1 | --- | --- |
| Tin | ppm | 0 | 0 | --- | --- |
| Aluminum | ppm | <1 | <1 | --- | --- |
| Chromium | ppm | 0 | <1 | --- | --- |
| Molybdenum | ppm | 0 | 0 | --- | --- |
| Nickel | ppm | 0 | <1 | --- | --- |
| Titanium | ppm | 0 | 0 | --- | --- |
| Silver | ppm | 0 | <1 | --- | --- |
| Manganese | ppm | 0 | 0 | --- | --- |
| Vanadium | ppm | <1 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 38 | 46 | --- | --- |
| Magnesium | ppm | 1 | 2 | --- | --- |
| Zinc | ppm | 336 | 407 | --- | --- |
| Phosphorus | ppm | 335 | 400 | --- | --- |
| Barium | ppm | 0 | 0 | --- | --- |
| Boron | ppm | 0 | 0 | --- | --- |

Depot: SCOSAI
Unique No: 10552612
Signed: Don Baldrige
Report Date: 14 Jul 2023

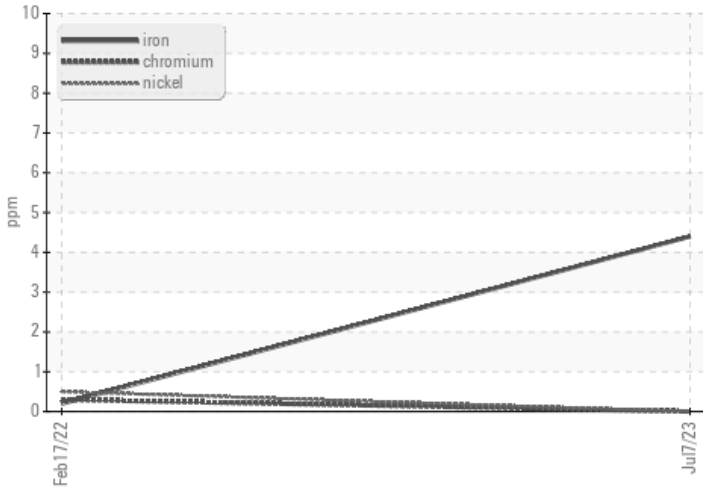


CONSTRUCTION EQUIPMENT

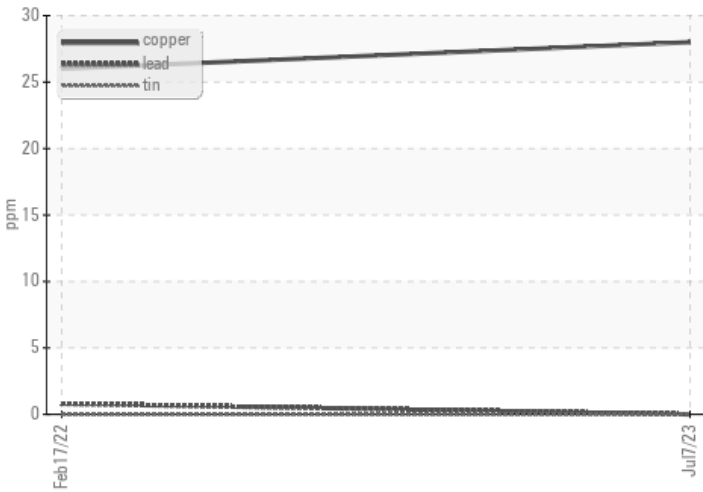


VOLVO GRAPHS

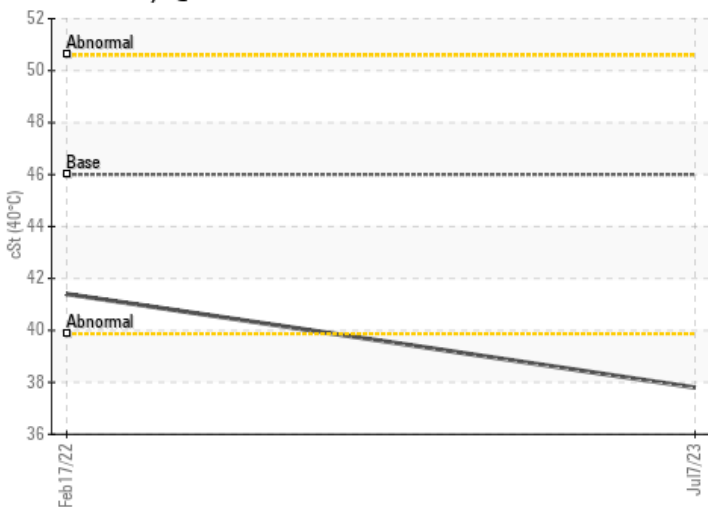
Ferrous Alloys



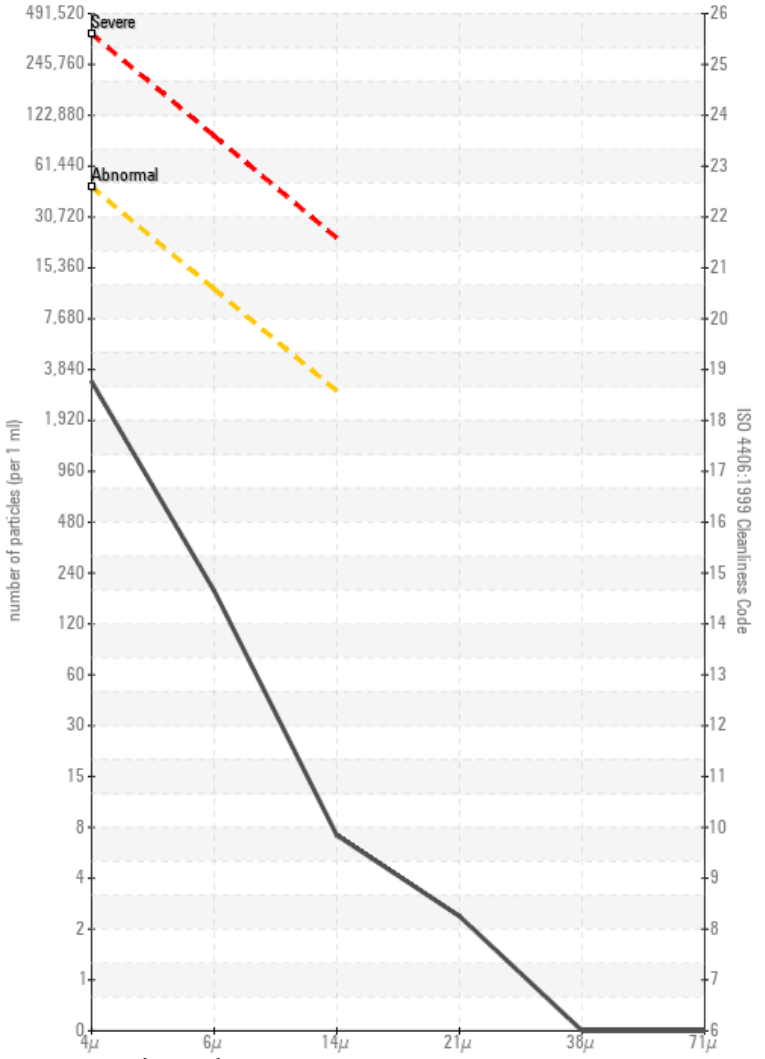
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

