



CONSTRUCTION EQUIPMENT

SPM579695 VOLVO A45G 352632 - DIESEL ENGINE



Sample No: VCP386783
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM579695



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP386783 | VCP387221 | VCP379142 | VCP340274 |
| Sample Date | 10 Jul 2023 | 27 Jan 2023 | 30 Jun 2022 | 30 Dec 2021 |
| Machine Hours | 2530 | 1617 | 1092 | 506 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | ABNORMAL |

A J MCDIRT
P.O. BOX 781
STERLING, IL
US 61081
Contact: SERVICE MANAGER

OIL CONDITION

| | | | | | |
|------------------|----------|---------------|--------|--------|--------|
| Visc @ 100°C | cSt | █ 13.1 | █ 13.0 | █ 12.6 | ▲ 10.9 |
| Base Number (BN) | mg KOH/g | █ 8.4 | █ 8.8 | █ 8.7 | █ 9.6 |
| Oxidation (PA) | % | 54 | 59 | 65 | 85 |

T: (815)631-1606
F:

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

CONTAMINATION

| | | | | | |
|----------------|-----|----------------|-------|-------|-------|
| Soot % | % | █ 0.6 | █ 0.6 | █ 0.6 | █ 0.4 |
| Nitration (PA) | % | 65 | 73 | 73 | 63 |
| Sulfation (PA) | % | 51 | 54 | 56 | 67 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | █ 0.2 |
| Silicon | ppm | █ 4 | █ 6 | █ 9 | █ 33 |
| Sodium | ppm | █ 46 | █ 2 | █ 3 | █ 3 |
| Potassium | ppm | █ 3 | █ <1 | █ 0 | █ 0 |

WEAR METALS

| | | | | | |
|------------|-----|----------------|------|------|------|
| Iron | ppm | █ 15 | █ 19 | █ 41 | █ 33 |
| Copper | ppm | █ 2 | █ 3 | █ 8 | █ 32 |
| Lead | ppm | █ <1 | █ 1 | █ 2 | █ 2 |
| Tin | ppm | █ <1 | █ 2 | █ 2 | █ 4 |
| Aluminum | ppm | █ 1 | █ 1 | █ 1 | █ 2 |
| Chromium | ppm | █ <1 | █ <1 | █ 1 | █ 1 |
| Molybdenum | ppm | █ 61 | █ 60 | █ 57 | █ 35 |
| Nickel | ppm | █ 4 | █ 4 | █ 8 | ▲ 9 |
| Titanium | ppm | █ 0 | █ 0 | █ 0 | █ <1 |
| Silver | ppm | █ <1 | █ 0 | █ <1 | █ 0 |
| Manganese | ppm | █ <1 | █ <1 | █ 1 | █ 3 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |

ADDITIVES

| | | | | | |
|------------|-----|---------------|--------|--------|--------|
| Calcium | ppm | █ 1052 | █ 1060 | █ 1208 | █ 1382 |
| Magnesium | ppm | █ 913 | █ 976 | █ 912 | █ 397 |
| Zinc | ppm | █ 1207 | █ 1311 | █ 1224 | █ 985 |
| Phosphorus | ppm | █ 1023 | █ 1036 | █ 1000 | █ 800 |
| Barium | ppm | █ 0 | █ 0 | █ 0 | █ 0 |
| Boron | ppm | █ 0 | █ <1 | █ 7 | █ 43 |

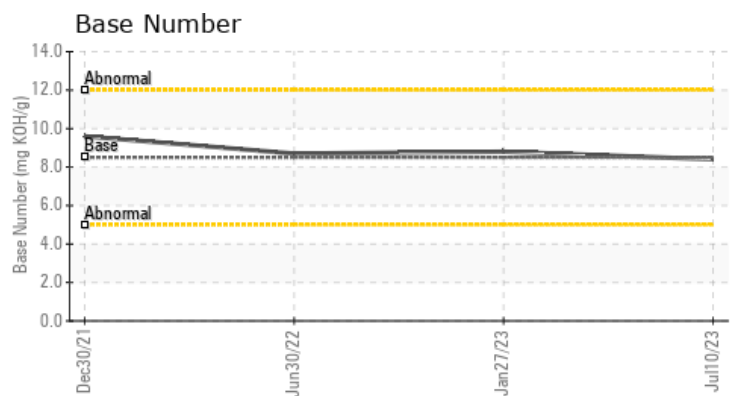
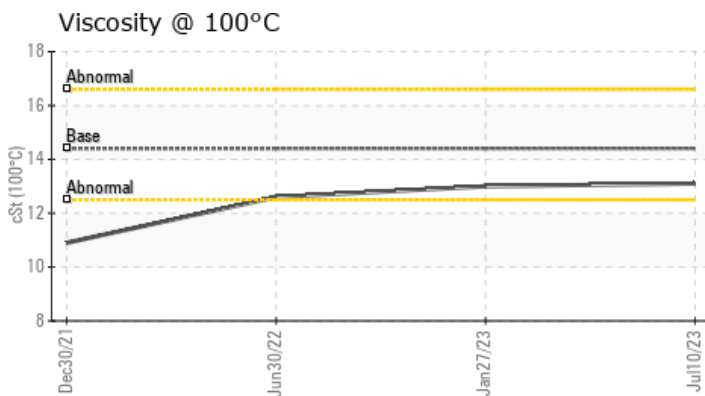
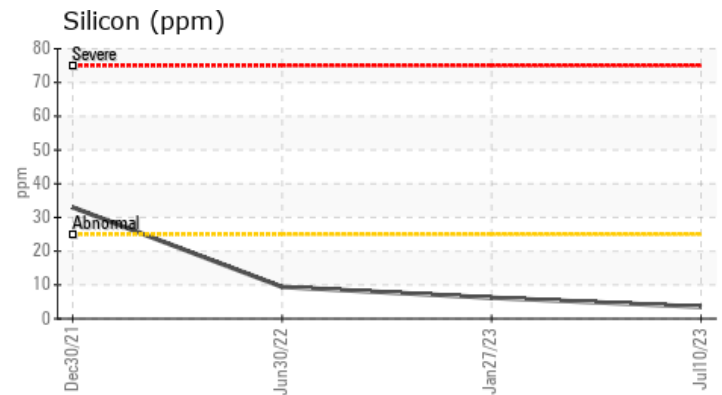
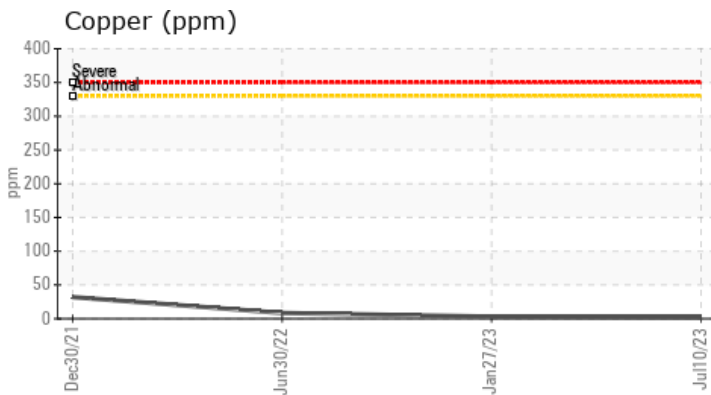
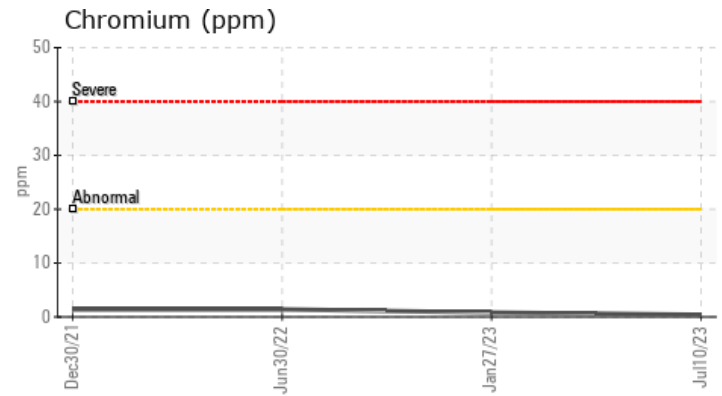
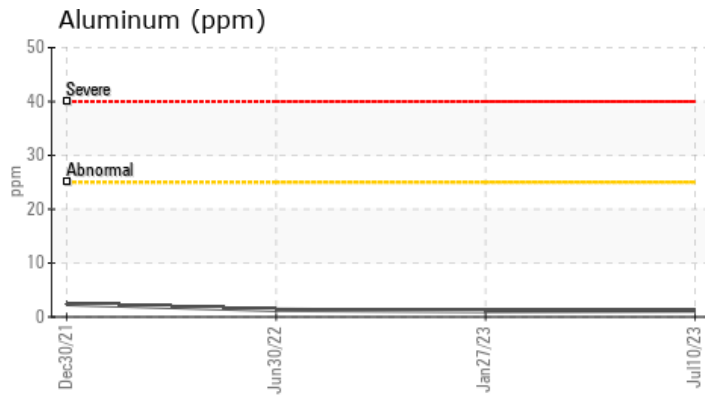
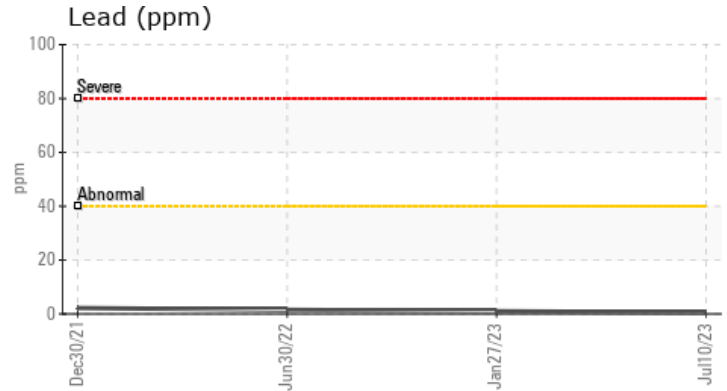
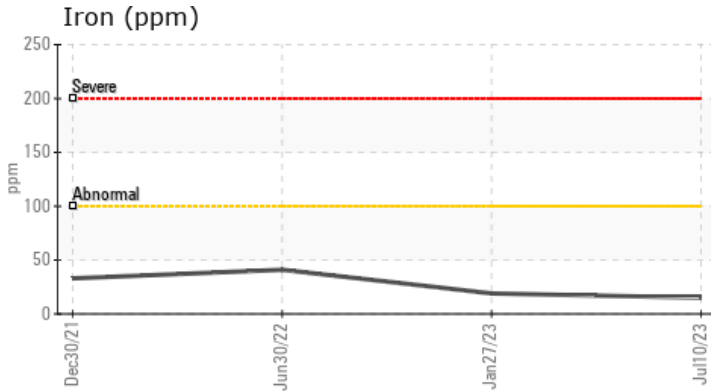
Depot: AJMSTE
Unique No: 10589084
Signed: Wes Davis
Report Date: 08 Aug 2023



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

VOLVO A45G 352632 - TRANSMISSION (AUTO)



Sample No: VCP379074
Oil Type: DEXRON III
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP379074 | VCP349123 | --- | --- |
| Sample Date | 30 Jun 2022 | 30 Dec 2021 | --- | --- |
| Machine Hours | 1092 | 506 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Changed | Not Chngd | --- | --- |
| Sample Status | ABNORMAL | NORMAL | --- | --- |

A J MCDIRT
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US 61081
Contact: SERVICE MANAGER



OIL CONDITION

| | | | | | |
|-------------|-----|--------|--------|-----|-----|
| Visc @ 40°C | cSt | █ 29.0 | █ 28.9 | --- | --- |
|-------------|-----|--------|--------|-----|-----|

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CONTAMINATION

| Water | % | NEG | NEG | --- | --- |
|-----------|-----|------|------|-----|-----|
| Silicon | ppm | █ 16 | █ 14 | --- | --- |
| Sodium | ppm | █ 5 | █ 5 | --- | --- |
| Potassium | ppm | █ 4 | █ 3 | --- | --- |

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Moderate concentration of visible metal present. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|------|------|-----|-----|
| Iron | ppm | █ 48 | █ 28 | --- | --- |
| Copper | ppm | █ 42 | █ 25 | --- | --- |
| Lead | ppm | █ 0 | █ 0 | --- | --- |
| Tin | ppm | █ 6 | █ 3 | --- | --- |
| Aluminum | ppm | █ 24 | █ 12 | --- | --- |
| Chromium | ppm | █ <1 | █ <1 | --- | --- |
| Molybdenum | ppm | █ <1 | █ <1 | --- | --- |
| Nickel | ppm | █ 6 | █ 3 | --- | --- |
| Titanium | ppm | █ 0 | █ 0 | --- | --- |
| Silver | ppm | █ 0 | █ 2 | --- | --- |
| Manganese | ppm | █ 7 | █ 4 | --- | --- |
| Vanadium | ppm | █ 0 | █ 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------|-------|-----|-----|
| Calcium | ppm | █ 83 | █ 73 | --- | --- |
| Magnesium | ppm | █ 1 | █ 2 | --- | --- |
| Zinc | ppm | █ 6 | █ 5 | --- | --- |
| Phosphorus | ppm | █ 212 | █ 185 | --- | --- |
| Barium | ppm | █ 0 | █ 0 | --- | --- |
| Boron | ppm | █ 74 | █ 82 | --- | --- |

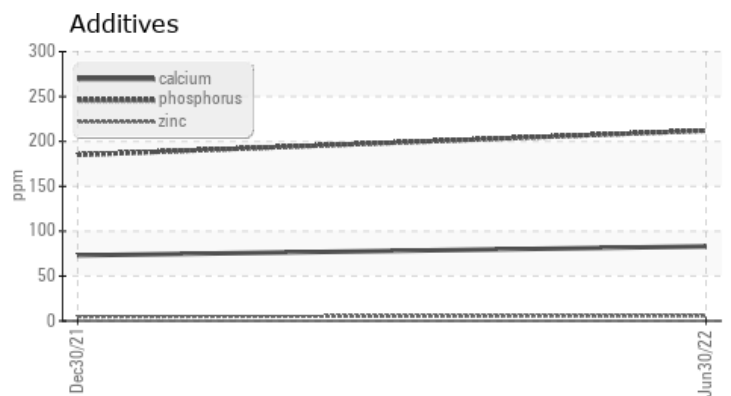
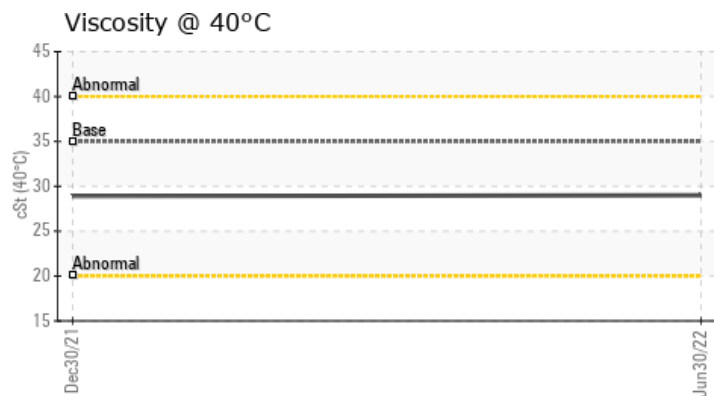
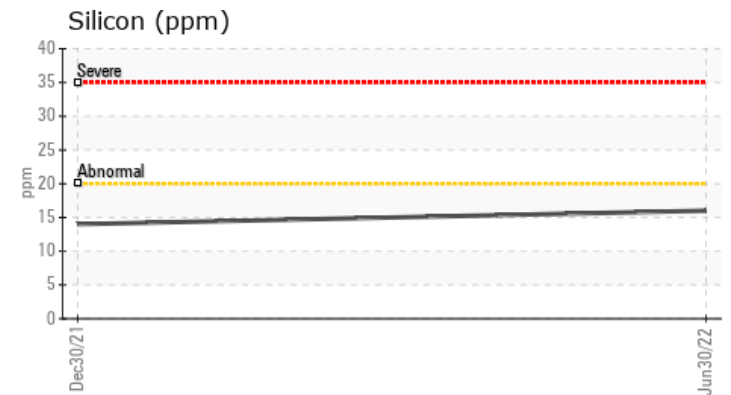
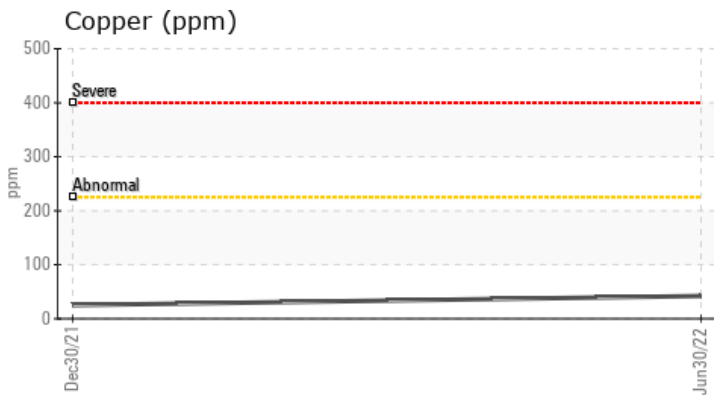
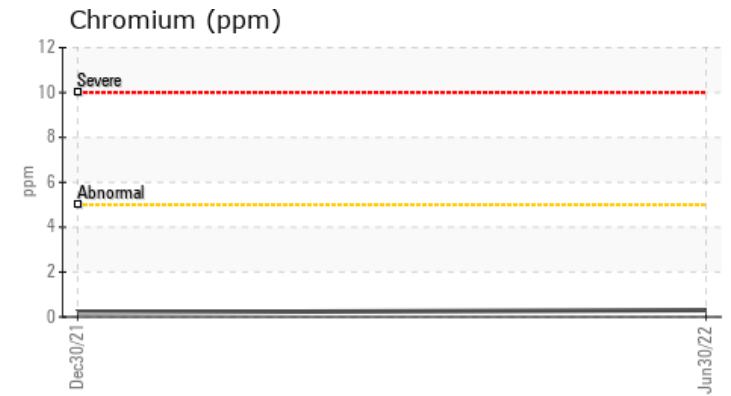
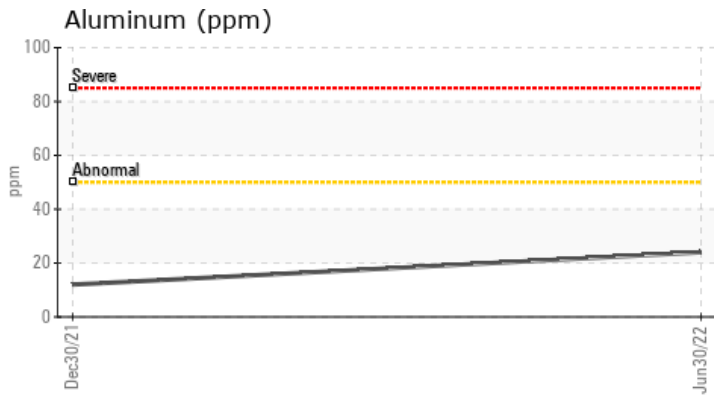
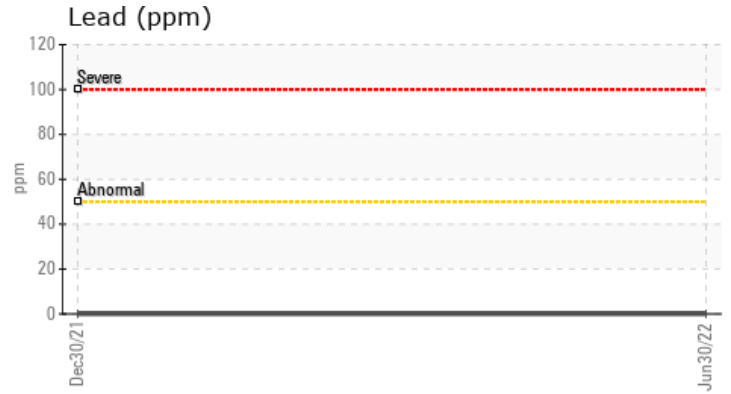
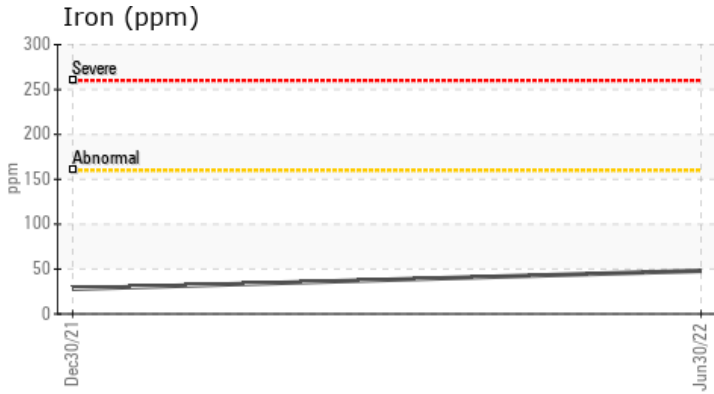
Depot: AJMSTE
Unique No: 10049876
Signed: Jonathan Hester
Report Date: 15 Jul 2022



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SPM352632 VOLVO A45G 352632 - TRANSFER CASE



Sample No: VCP353601
Oil Type: VOLVO WET BRAKE TRANSAXLE OIL
Job No: SPM352632



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP353601 | --- | --- | --- |
| Sample Date | 30 Jun 2022 | --- | --- | --- |
| Machine Hours | 1092 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Not Chngd | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

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US 61081
Contact: SERVICE MANAGER



OIL CONDITION

| | | | | | |
|-------------|-----|------|-----|-----|-----|
| Visc @ 40°C | cSt | 39.6 | --- | --- | --- |
|-------------|-----|------|-----|-----|-----|

T: (815)631-1606
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CONTAMINATION

| | | | | | |
|-----------|-----|-----|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Silicon | ppm | 14 | --- | --- | --- |
| Sodium | ppm | 11 | --- | --- | --- |
| Potassium | ppm | 2 | --- | --- | --- |

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|----|-----|-----|-----|
| Iron | ppm | 91 | --- | --- | --- |
| Copper | ppm | 1 | --- | --- | --- |
| Lead | ppm | <1 | --- | --- | --- |
| Tin | ppm | <1 | --- | --- | --- |
| Aluminum | ppm | 2 | --- | --- | --- |
| Chromium | ppm | 4 | --- | --- | --- |
| Molybdenum | ppm | 6 | --- | --- | --- |
| Nickel | ppm | <1 | --- | --- | --- |
| Titanium | ppm | 0 | --- | --- | --- |
| Silver | ppm | 0 | --- | --- | --- |
| Manganese | ppm | 10 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Calcium | ppm | 4285 | --- | --- | --- |
| Magnesium | ppm | 15 | --- | --- | --- |
| Zinc | ppm | 1702 | --- | --- | --- |
| Phosphorus | ppm | 1412 | --- | --- | --- |
| Barium | ppm | 0 | --- | --- | --- |
| Boron | ppm | 128 | --- | --- | --- |

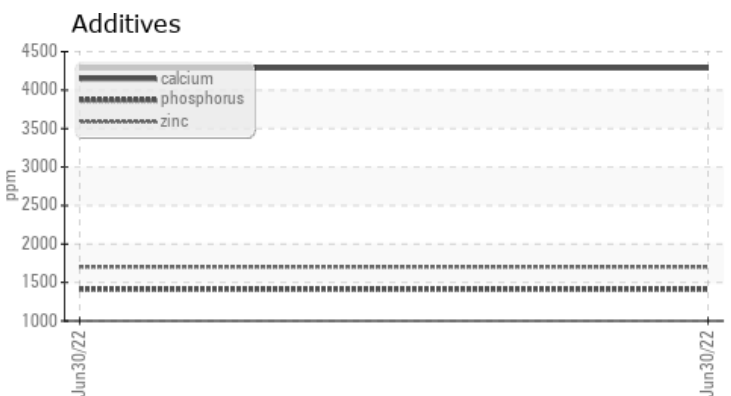
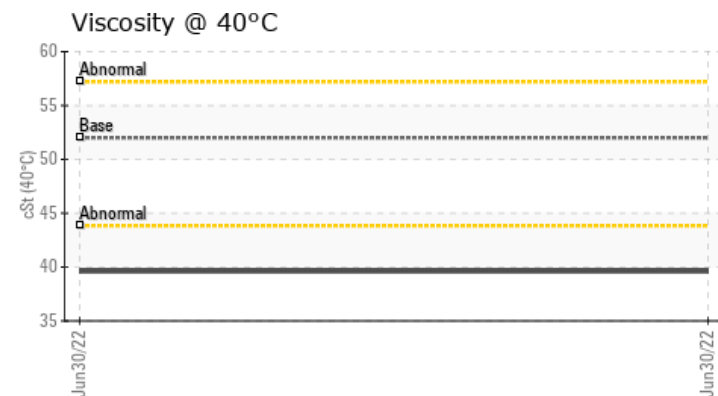
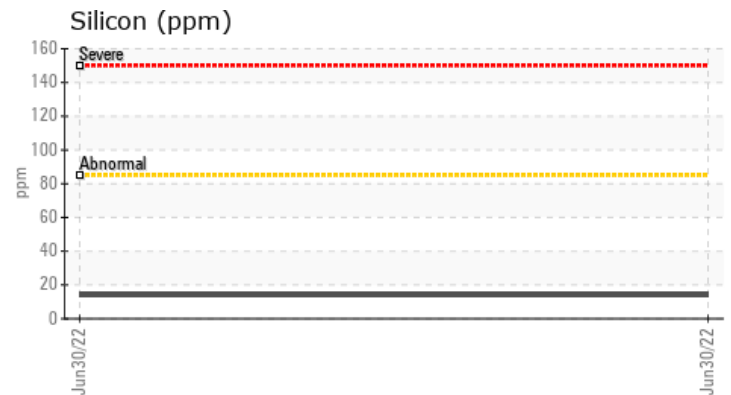
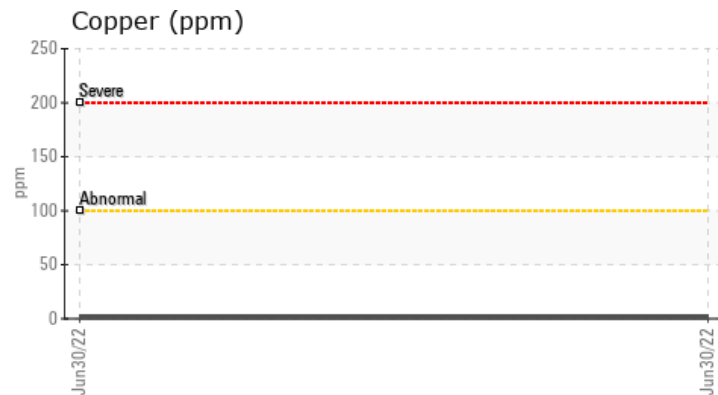
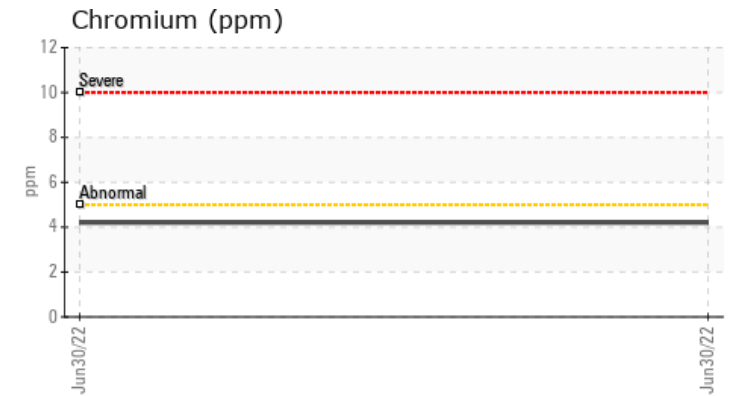
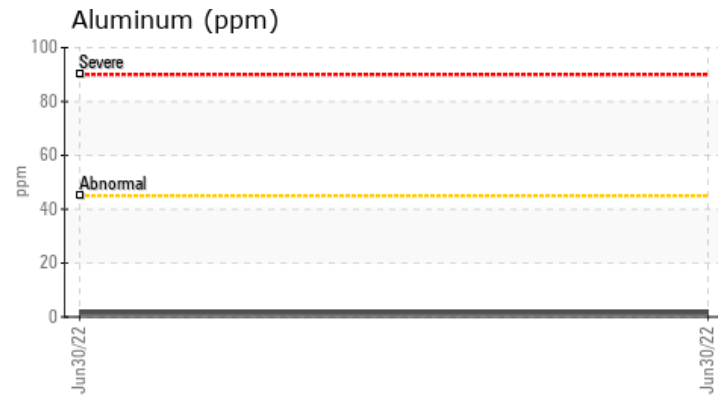
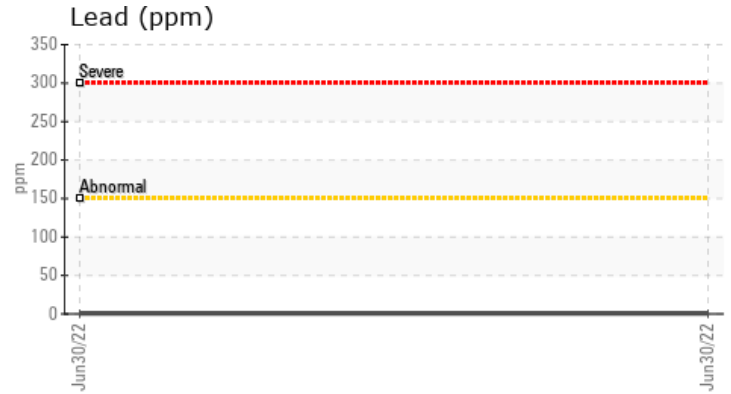
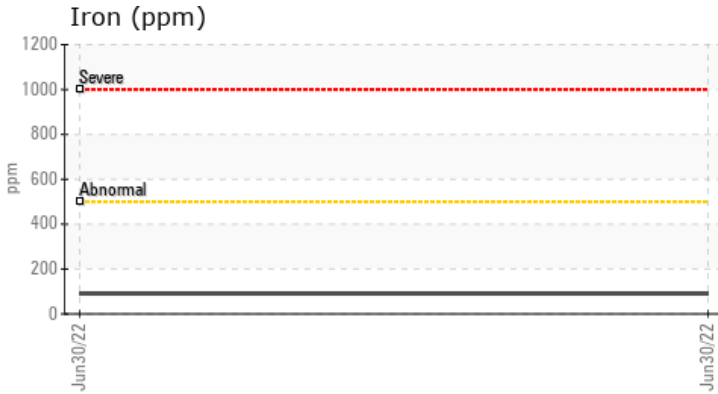
Depot: AJMSTE
Unique No: 10049868
Signed: Jonathan Hester
Report Date: 15 Jul 2022



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

VOLVO A45G 352632 - HYDRAULIC SYSTEM



Sample No: VCP379141
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP379141 | --- | --- | --- |
| Sample Date | 30 Jun 2022 | --- | --- | --- |
| Machine Hours | 1092 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Not Chngd | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

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US 61081
Contact: SERVICE MANAGER



OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 40°C | cSt | █ 42.4 | --- | --- | --- |
| Acid Number (AN) | mg KOH/g | █ 0.43 | --- | --- | --- |

T: (815)631-1606
F:



CONTAMINATION

| | | | | | |
|-------------------|-----|----------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Particles >4µm | | █ 10818 | --- | --- | --- |
| Particles >6µm | | █ 1529 | --- | --- | --- |
| Particles >14µm | | █ 85 | --- | --- | --- |
| ISO 4406:1999 (c) | | 21/18/14 | --- | --- | --- |
| Silicon | ppm | █ 10 | --- | --- | --- |
| Sodium | ppm | █ 0 | --- | --- | --- |
| Potassium | ppm | █ <1 | --- | --- | --- |

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



ADDITIVES

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Calcium | ppm | █ 64 | --- | --- | --- |
| Magnesium | ppm | █ 2 | --- | --- | --- |
| Zinc | ppm | █ 439 | --- | --- | --- |
| Phosphorus | ppm | █ 327 | --- | --- | --- |
| Barium | ppm | █ 2 | --- | --- | --- |
| Boron | ppm | █ <1 | --- | --- | --- |

Depot: AJMSTE
Unique No: 10049580
Signed: Don Baldrige
Report Date: 15 Jul 2022

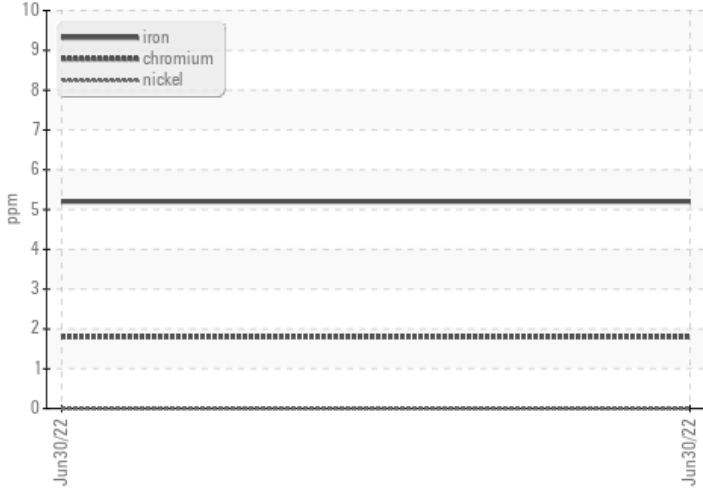


CONSTRUCTION EQUIPMENT

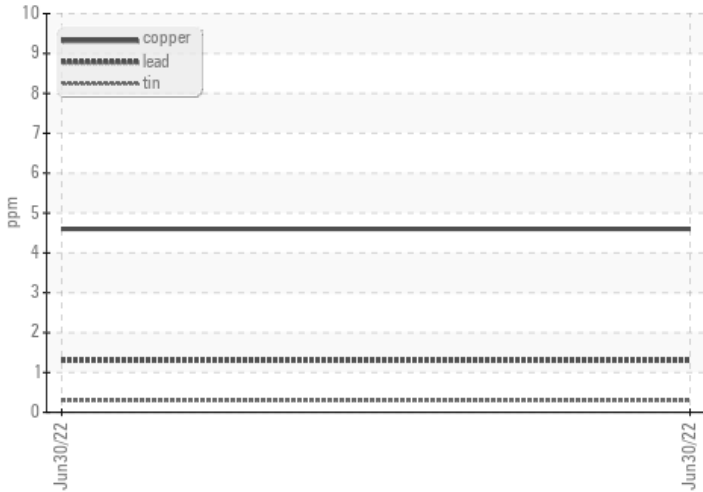


VOLVO GRAPHS

Ferrous Alloys



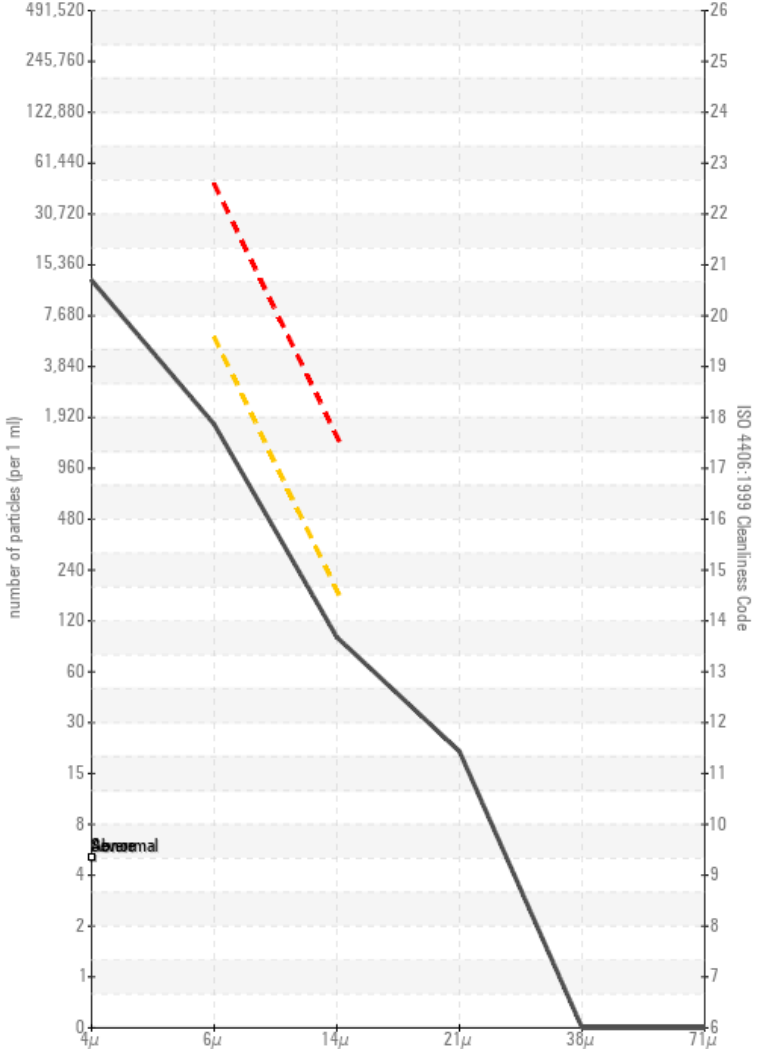
Non-ferrous Metals



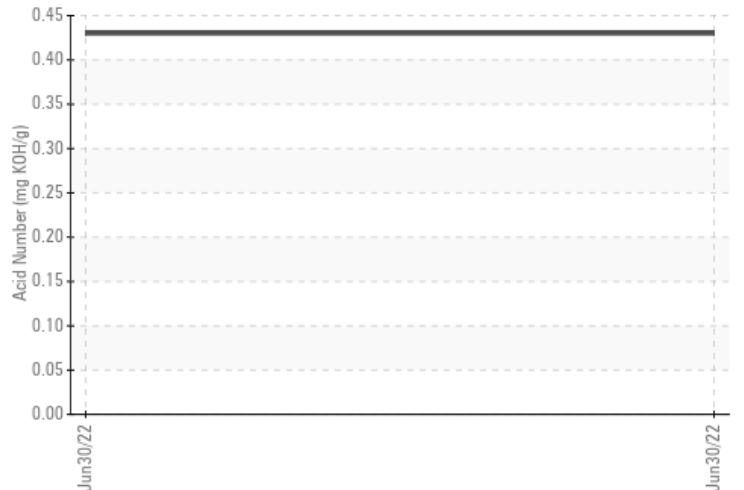
Viscosity @ 40°C



Particle Count



Acid Number





CONSTRUCTION EQUIPMENT

VOLVO A45G 352632 - FRONT AXLE



Sample No: VCP373645
Oil Type: GEAR OIL SAE 80W90
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | VCP373645 | VCP349120 | --- | --- |
| Sample Date | 30 Jun 2022 | 30 Dec 2021 | --- | --- |
| Machine Hours | 1092 | 506 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | N/A | Not Changd | --- | --- |
| Sample Status | ATTENTION | ATTENTION | --- | --- |

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STERLING, IL
US 61081
Contact: SERVICE MANAGER



OIL CONDITION

| | | | | | |
|-------------|-----|-------------|------|-----|-----|
| Visc @ 40°C | cSt | 50.5 | 51.0 | --- | --- |
|-------------|-----|-------------|------|-----|-----|

T: (815)631-1606
F:



CONTAMINATION

| | | | | | |
|-----------|-----|------------|-----|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Silicon | ppm | 4 | 4 | --- | --- |
| Sodium | ppm | 2 | 2 | --- | --- |
| Potassium | ppm | 4 | 5 | --- | --- |

Diagnosis
No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.



WEAR METALS

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Iron | ppm | 267 | 280 | --- | --- |
| Copper | ppm | 2 | 1 | --- | --- |
| Lead | ppm | 0 | 0 | --- | --- |
| Tin | ppm | <1 | <1 | --- | --- |
| Aluminum | ppm | <1 | <1 | --- | --- |
| Chromium | ppm | 4 | 5 | --- | --- |
| Molybdenum | ppm | 5 | 7 | --- | --- |
| Nickel | ppm | <1 | <1 | --- | --- |
| Titanium | ppm | 0 | 0 | --- | --- |
| Silver | ppm | <1 | <1 | --- | --- |
| Manganese | ppm | 16 | 20 | --- | --- |
| Vanadium | ppm | 0 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|-----|-----|
| Calcium | ppm | 125 | 111 | --- | --- |
| Magnesium | ppm | 2 | 1 | --- | --- |
| Zinc | ppm | 57 | 50 | --- | --- |
| Phosphorus | ppm | 2580 | 2413 | --- | --- |
| Barium | ppm | 0 | 0 | --- | --- |
| Boron | ppm | 247 | 299 | --- | --- |

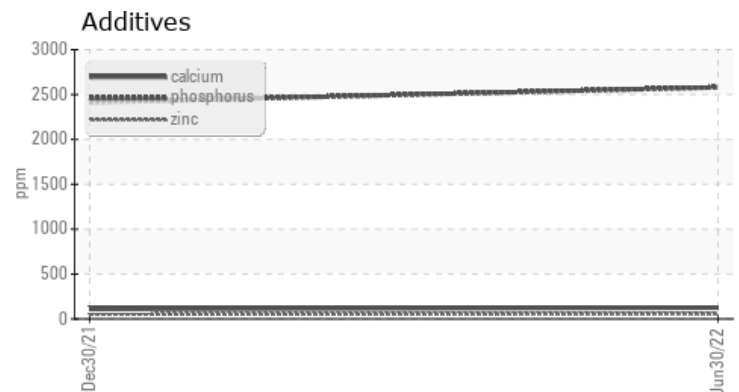
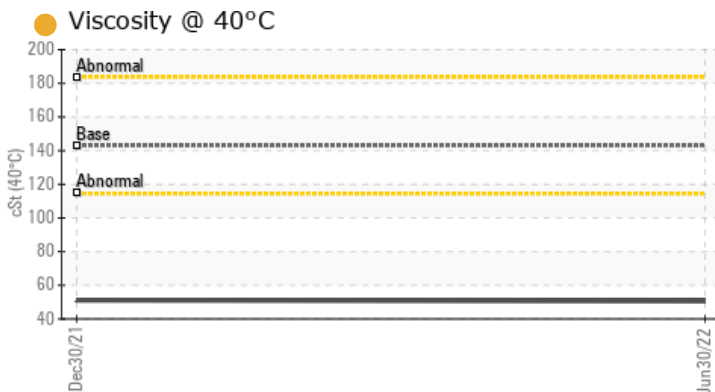
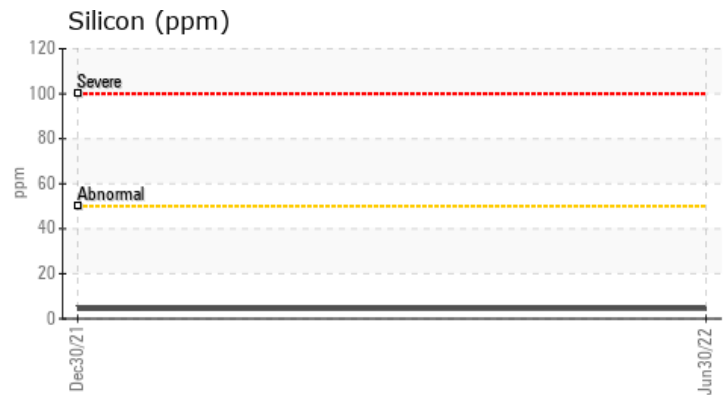
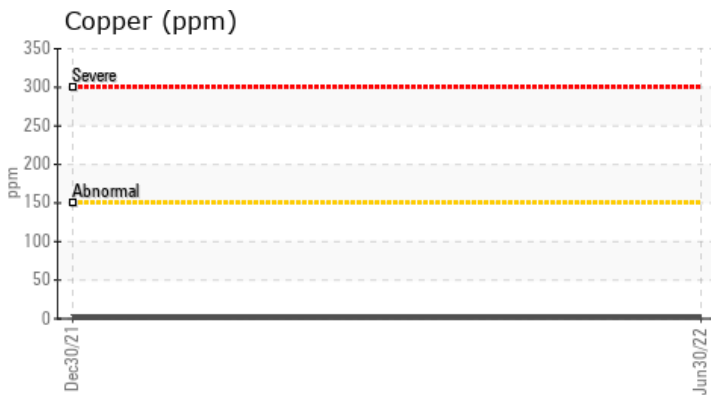
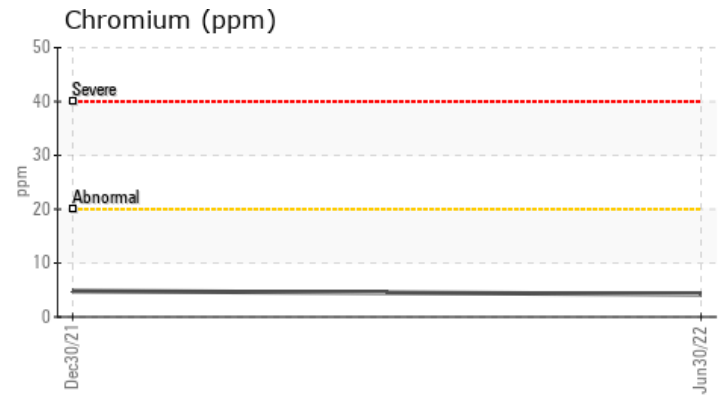
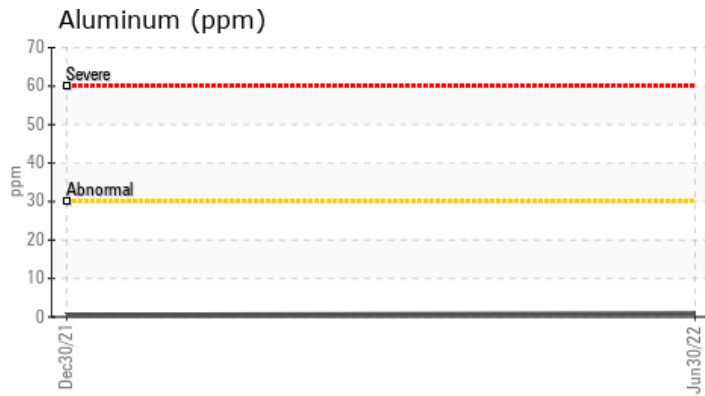
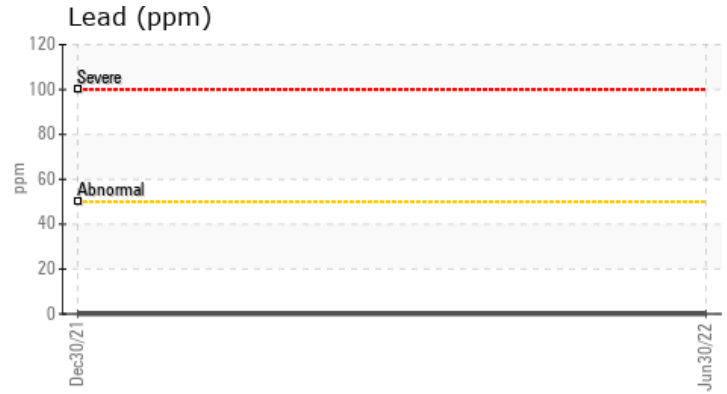
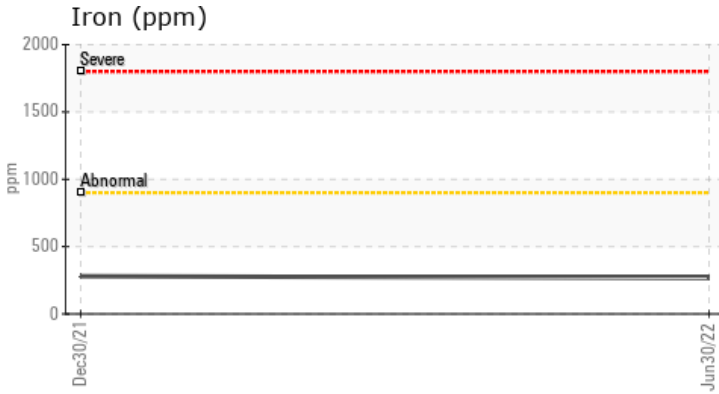
Depot: AJMSTE
Unique No: 10049861
Signed: Angela Borella
Report Date: 15 Jul 2022



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

VOLVO A45G 352632 - BOGIE/CENTER AXLE



Sample No: VCP345150
Oil Type: GEAR OIL SAE 80W90
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | VCP345150 | VCP349122 | --- | --- |
| Sample Date | 30 Jun 2022 | 30 Dec 2021 | --- | --- |
| Machine Hours | 1092 | 506 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Not Chngd | Not Chngd | --- | --- |
| Sample Status | ATTENTION | ATTENTION | --- | --- |

A J MCDIRTT
P.O. BOX 781
STERLING, IL
US 61081
Contact: SERVICE MANAGER



OIL CONDITION

| | | | | | |
|-------------|-----|-------------|------|-----|-----|
| Visc @ 40°C | cSt | 50.9 | 51.2 | --- | --- |
|-------------|-----|-------------|------|-----|-----|

T: (815)631-1606
F:



CONTAMINATION

| | | | | | |
|-----------|-----|------------|-----|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Silicon | ppm | 4 | 4 | --- | --- |
| Sodium | ppm | 2 | 2 | --- | --- |
| Potassium | ppm | 4 | 4 | --- | --- |

Diagnosis
No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.



WEAR METALS

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Iron | ppm | 292 | 346 | --- | --- |
| Copper | ppm | 1 | 1 | --- | --- |
| Lead | ppm | 0 | 0 | --- | --- |
| Tin | ppm | <1 | <1 | --- | --- |
| Aluminum | ppm | <1 | <1 | --- | --- |
| Chromium | ppm | 5 | 5 | --- | --- |
| Molybdenum | ppm | 5 | 6 | --- | --- |
| Nickel | ppm | 1 | 1 | --- | --- |
| Titanium | ppm | 0 | 0 | --- | --- |
| Silver | ppm | 0 | <1 | --- | --- |
| Manganese | ppm | 14 | 17 | --- | --- |
| Vanadium | ppm | 0 | <1 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|-----|-----|
| Calcium | ppm | 127 | 109 | --- | --- |
| Magnesium | ppm | 2 | 1 | --- | --- |
| Zinc | ppm | 57 | 50 | --- | --- |
| Phosphorus | ppm | 2607 | 2492 | --- | --- |
| Barium | ppm | 0 | 0 | --- | --- |
| Boron | ppm | 260 | 314 | --- | --- |

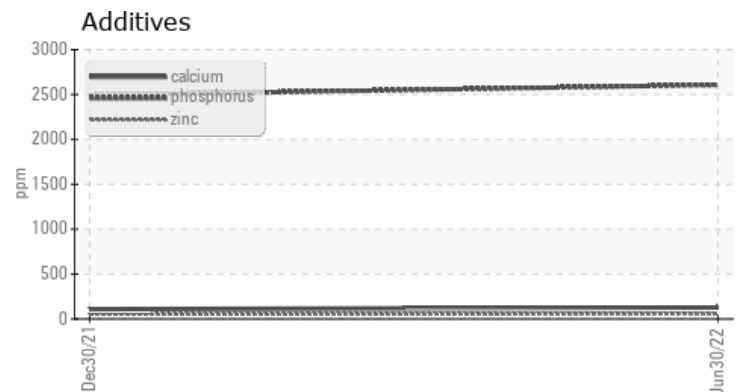
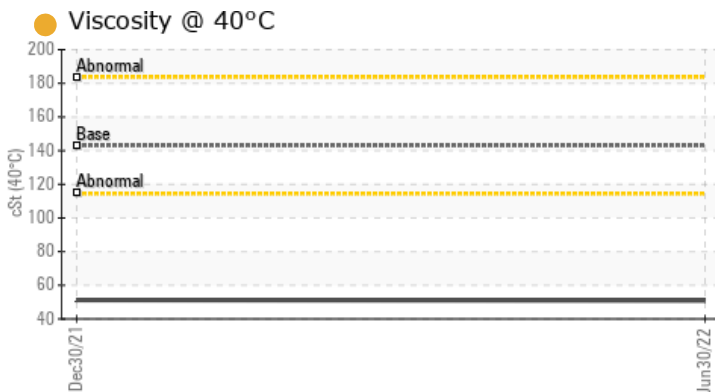
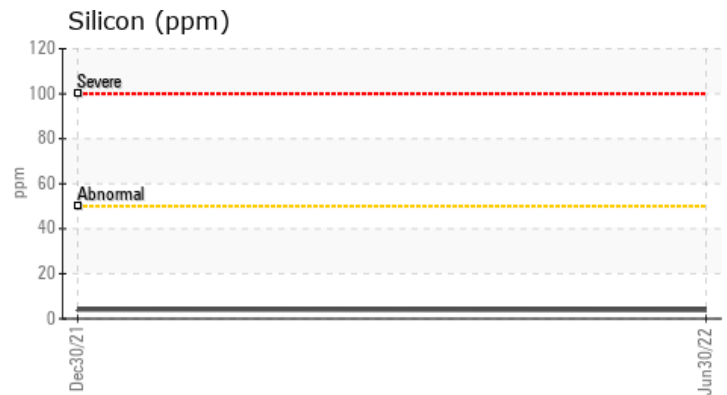
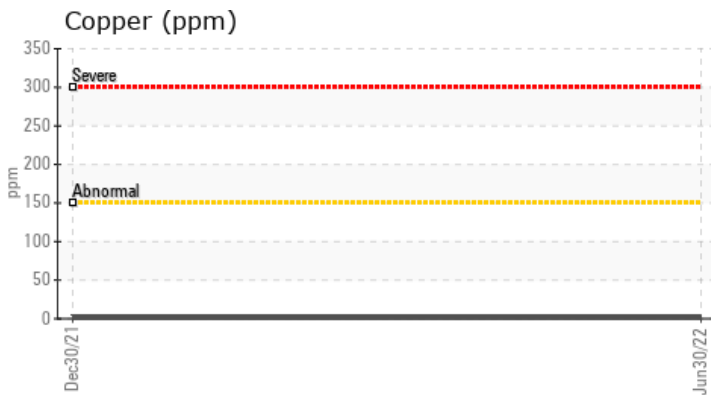
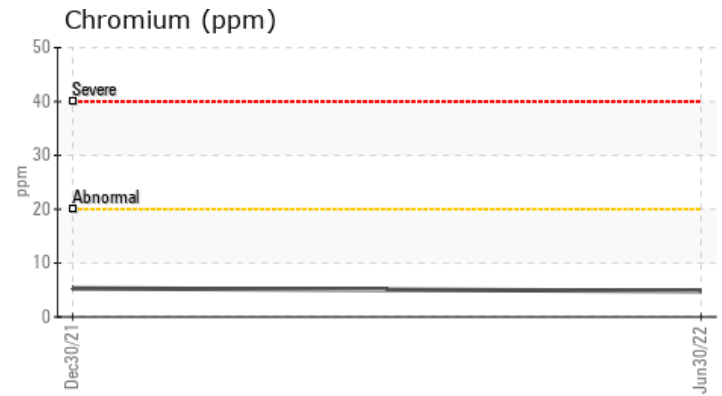
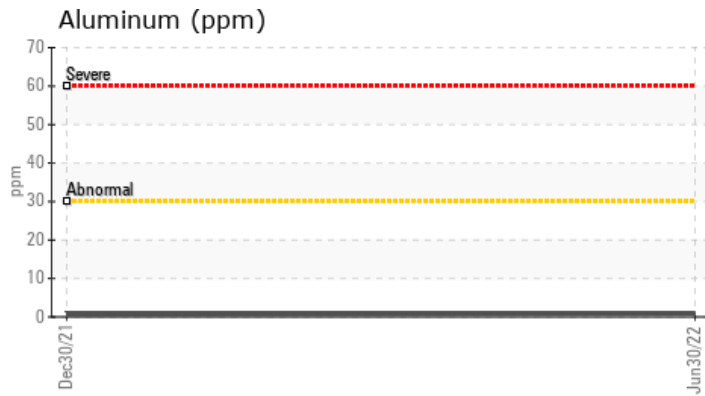
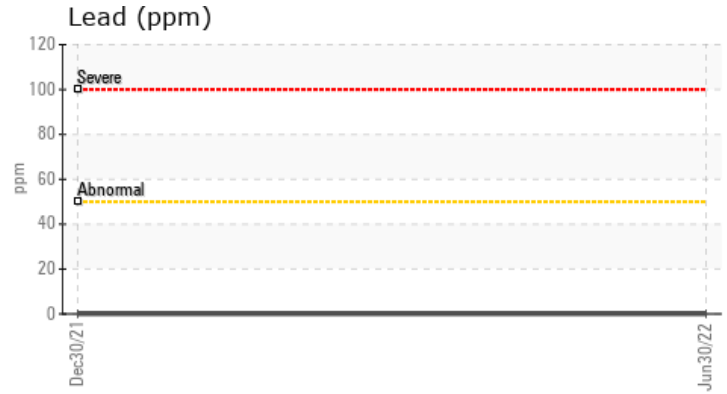
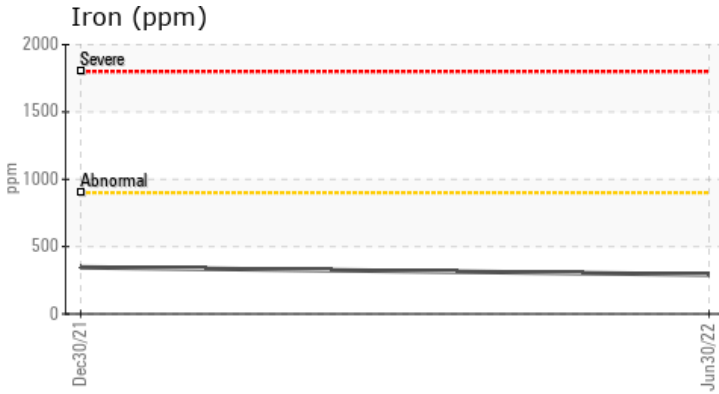
Depot: AJMSTE
Unique No: 10049869
Signed: Jonathan Hester
Report Date: 15 Jul 2022



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

VOLVO A45G 352632 - REAR AXLE



Sample No: VCP374986
Oil Type: GEAR OIL SAE 80W90
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | VCP374986 | VCP349121 | --- | --- |
| Sample Date | 30 Jun 2022 | 30 Dec 2021 | --- | --- |
| Machine Hours | 1092 | 506 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Not Chngd | Not Chngd | --- | --- |
| Sample Status | ATTENTION | ATTENTION | --- | --- |

A J MCDIRTT
P.O. BOX 781
STERLING, IL
US 61081
Contact: SERVICE MANAGER



OIL CONDITION

| | | | | | |
|-------------|-----|-------------|------|-----|-----|
| Visc @ 40°C | cSt | 50.7 | 52.1 | --- | --- |
|-------------|-----|-------------|------|-----|-----|

T: (815)631-1606
F:



CONTAMINATION

| | | | | | |
|-----------|-----|------------|-----|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Silicon | ppm | 4 | 4 | --- | --- |
| Sodium | ppm | 2 | 2 | --- | --- |
| Potassium | ppm | 4 | 4 | --- | --- |

Diagnosis
No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.



WEAR METALS

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Iron | ppm | 254 | 316 | --- | --- |
| Copper | ppm | 2 | 1 | --- | --- |
| Lead | ppm | <1 | 0 | --- | --- |
| Tin | ppm | 0 | <1 | --- | --- |
| Aluminum | ppm | <1 | <1 | --- | --- |
| Chromium | ppm | 4 | 6 | --- | --- |
| Molybdenum | ppm | 5 | 7 | --- | --- |
| Nickel | ppm | <1 | <1 | --- | --- |
| Titanium | ppm | 0 | 0 | --- | --- |
| Silver | ppm | 0 | <1 | --- | --- |
| Manganese | ppm | 13 | 17 | --- | --- |
| Vanadium | ppm | 0 | <1 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|-----|-----|
| Calcium | ppm | 112 | 126 | --- | --- |
| Magnesium | ppm | 1 | 2 | --- | --- |
| Zinc | ppm | 52 | 60 | --- | --- |
| Phosphorus | ppm | 2581 | 2484 | --- | --- |
| Barium | ppm | 0 | 0 | --- | --- |
| Boron | ppm | 259 | 313 | --- | --- |

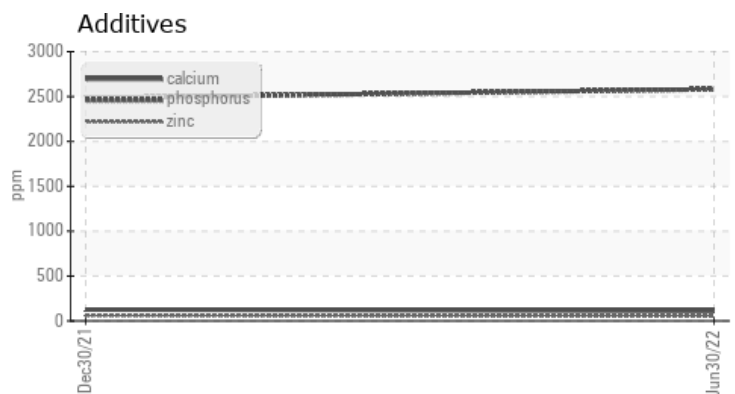
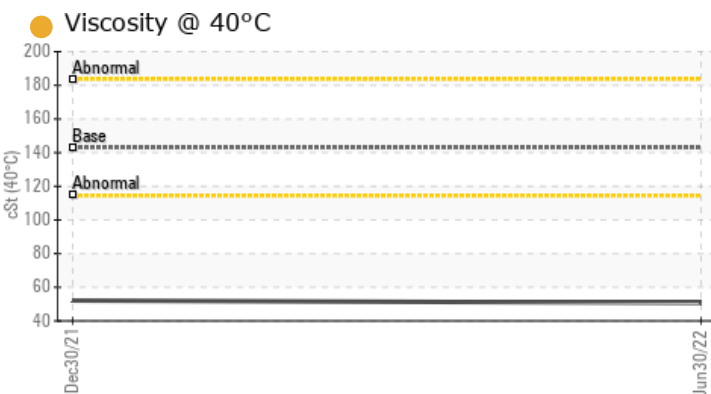
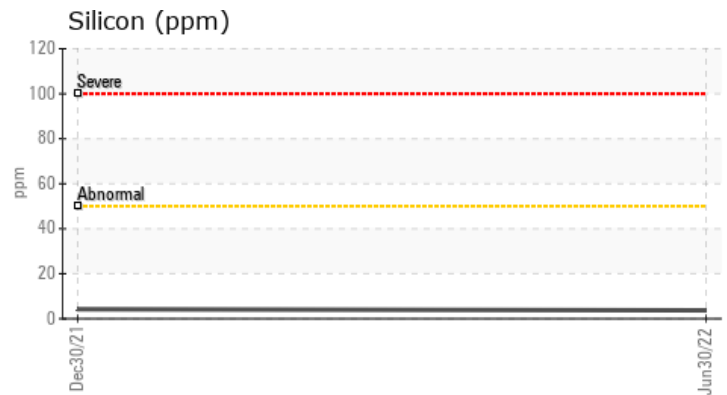
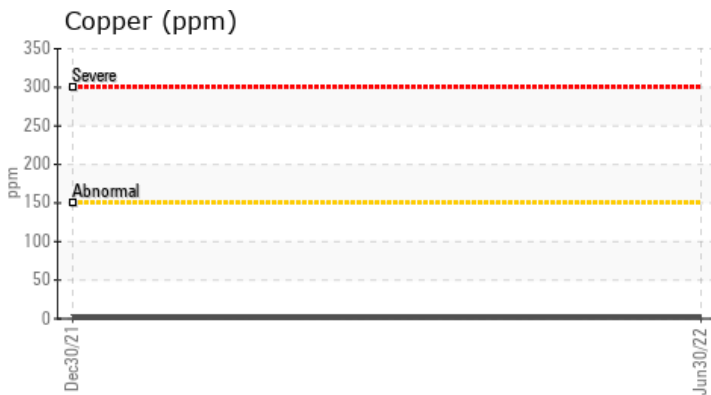
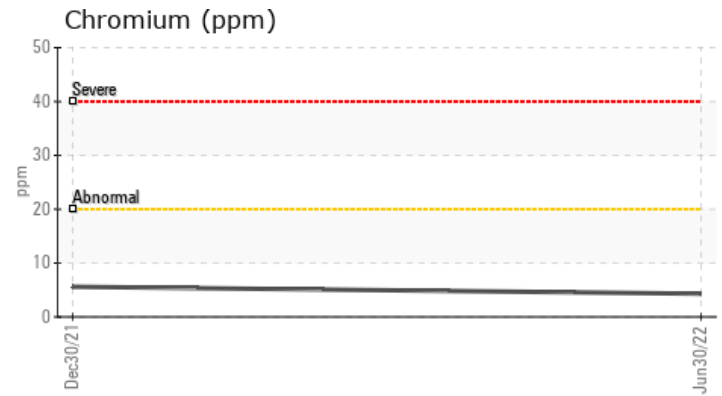
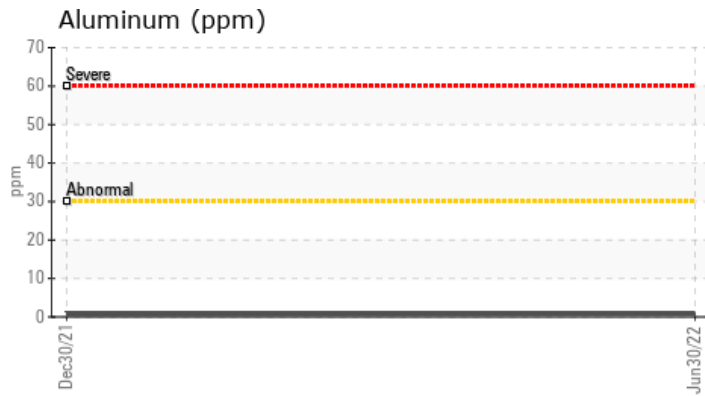
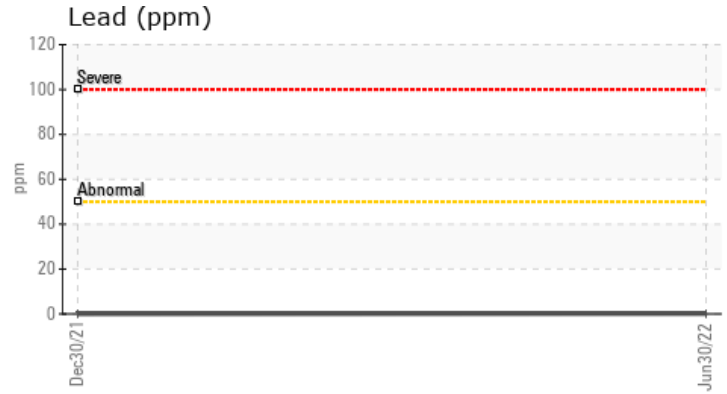
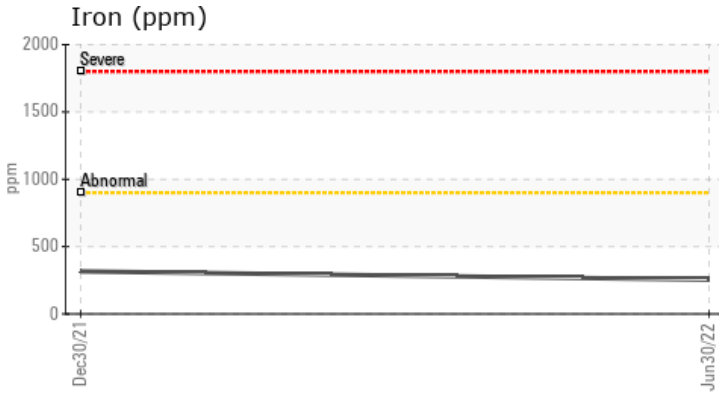
Depot: AJMSTE
Unique No: 10049866
Signed: Jonathan Hester
Report Date: 15 Jul 2022



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

SW0799264 VOLVO A45G 352632 - DROP BOX



Sample No: VCP349116
Oil Type: GEAR OIL SAE 80W90
Job No: SWO799264



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP349116 | --- | --- | --- |
| Sample Date | 30 Dec 2021 | --- | --- | --- |
| Machine Hours | 506 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Not Chngd | --- | --- | --- |
| Sample Status | ATTENTION | --- | --- | --- |

A J MCDIRT
P.O. BOX 781
STERLING, IL
US 61081
Contact: SERVICE MANAGER



OIL CONDITION

| | | | | | |
|-------------|-----|--------|-----|-----|-----|
| Visc @ 40°C | cSt | ● 48.2 | --- | --- | --- |
|-------------|-----|--------|-----|-----|-----|

T: (815)631-1606
F:



CONTAMINATION

| | | | | | |
|-----------|-----|------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Silicon | ppm | ■ 18 | --- | --- | --- |
| Sodium | ppm | ■ 9 | --- | --- | --- |
| Potassium | ppm | ■ 1 | --- | --- | --- |

Diagnosis
No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.



WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | ■ 103 | --- | --- | --- |
| Copper | ppm | ■ 4 | --- | --- | --- |
| Lead | ppm | ■ 0 | --- | --- | --- |
| Tin | ppm | ■ <1 | --- | --- | --- |
| Aluminum | ppm | ■ <1 | --- | --- | --- |
| Chromium | ppm | ■ 2 | --- | --- | --- |
| Molybdenum | ppm | ■ 22 | --- | --- | --- |
| Nickel | ppm | ■ <1 | --- | --- | --- |
| Titanium | ppm | 0 | --- | --- | --- |
| Silver | ppm | <1 | --- | --- | --- |
| Manganese | ppm | ■ 2 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | ■ 66 | --- | --- | --- |
| Magnesium | ppm | ■ 7 | --- | --- | --- |
| Zinc | ppm | ■ 85 | --- | --- | --- |
| Phosphorus | ppm | ■ 2312 | --- | --- | --- |
| Barium | ppm | ■ 0 | --- | --- | --- |
| Boron | ppm | ■ 216 | --- | --- | --- |

Depot: AJMSTE
Unique No: 9811893
Signed: Jonathan Hester
Report Date: 14 Jan 2022

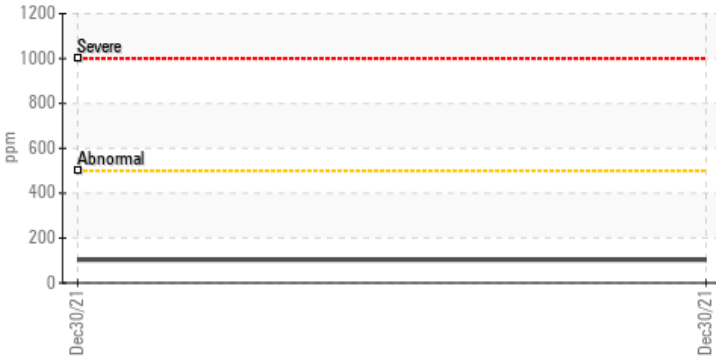


CONSTRUCTION EQUIPMENT

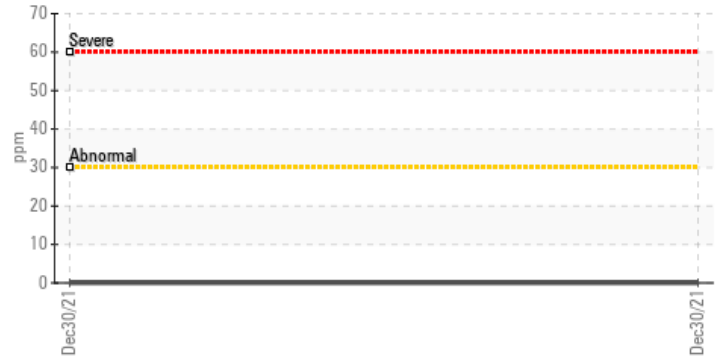


GRAPHS

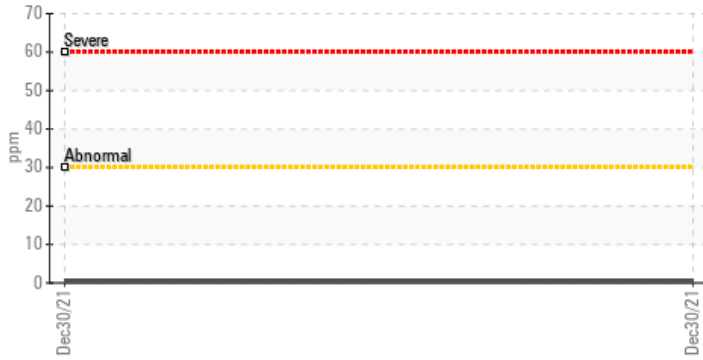
Iron (ppm)



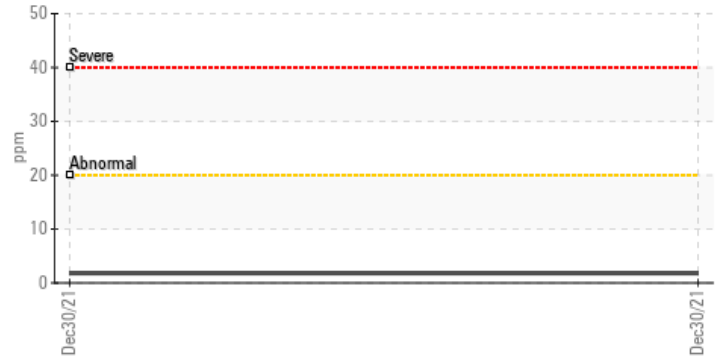
Lead (ppm)



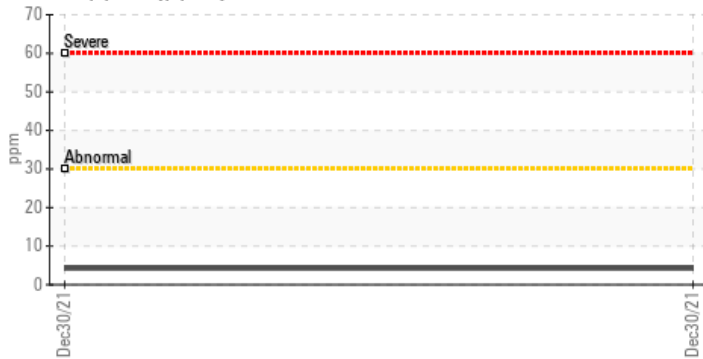
Aluminum (ppm)



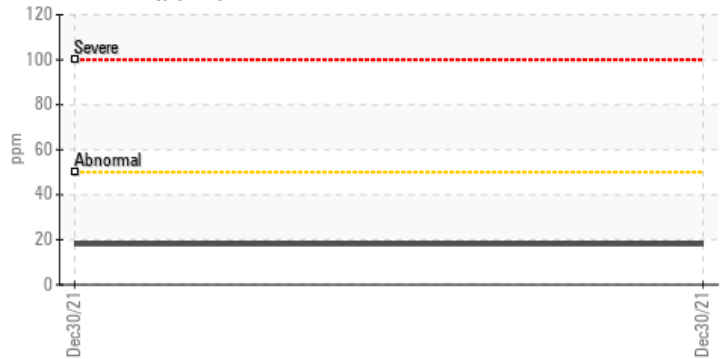
Chromium (ppm)



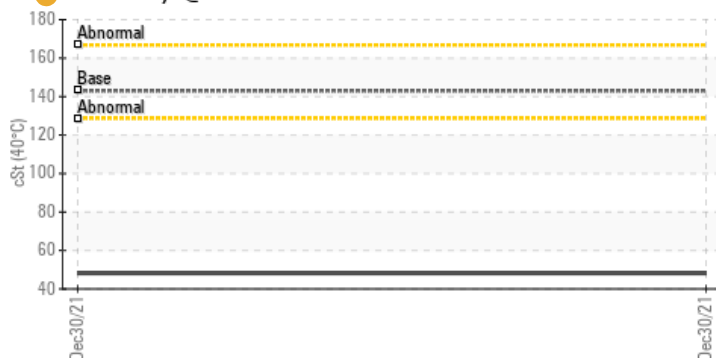
Copper (ppm)



Silicon (ppm)



● Viscosity @ 40°C



Additives

