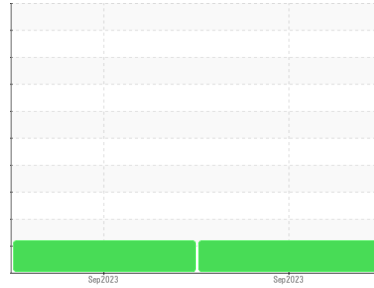




OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION



Machine Id
J&J BLD 1003 CAR 3
 Component
Hydraulic System
 Fluid
BIO-SAFE OS HYD OIL 32 (--- GAL)

DIAGNOSIS

▲ Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

▲ Fluid Condition

The AN level is at the top-end of the recommended limit.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|----------|
| Sample Number | Client Info | | WCM2320491 | WCM2320493 | --- |
| Sample Date | Client Info | | 26 Sep 2023 | 25 Sep 2023 | --- |
| Machine Age | hrs | Client Info | 0 | 0 | --- |
| Oil Age | hrs | Client Info | 0 | 0 | --- |
| Oil Changed | Client Info | | N/A | N/A | --- |
| Sample Status | | | ABNORMAL | ABNORMAL | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >20 | 8 | 8 | --- |
| Chromium | ppm | ASTM D5185m >10 | 0 | 0 | --- |
| Nickel | ppm | ASTM D5185m >10 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m >10 | 0 | 0 | --- |
| Lead | ppm | ASTM D5185m >10 | 0 | 0 | --- |
| Copper | ppm | ASTM D5185m >75 | <1 | <1 | --- |
| Tin | ppm | ASTM D5185m >10 | <1 | <1 | --- |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | --- |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 0 | 0 | --- |
| Barium | ppm | ASTM D5185m | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | --- |
| Manganese | ppm | ASTM D5185m | <1 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | <1 | <1 | --- |
| Calcium | ppm | ASTM D5185m | 12 | 12 | --- |
| Phosphorus | ppm | ASTM D5185m | 426 | 429 | --- |
| Zinc | ppm | ASTM D5185m | 18 | 20 | --- |
| Sulfur | ppm | ASTM D5185m | 1169 | 1182 | --- |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >20 | <1 | <1 | --- |
| Sodium | ppm | ASTM D5185m | 3 | 3 | --- |
| Potassium | ppm | ASTM D5185m >20 | 0 | <1 | --- |

FLUID CLEANLINESS

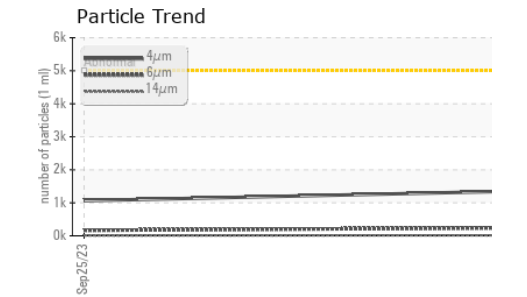
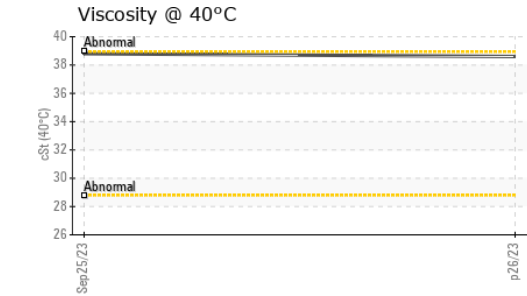
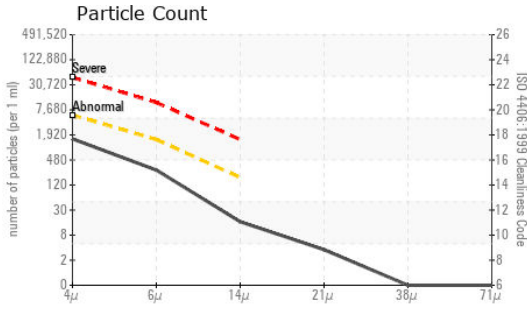
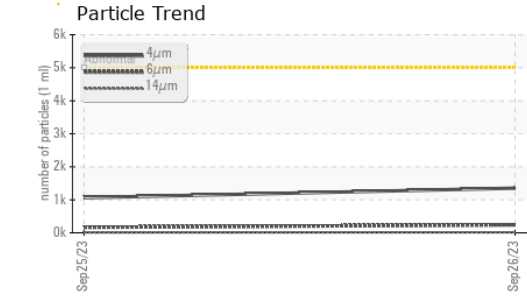
| | method | limit/base | current | history1 | history2 |
|-----------------|--------------|------------|-----------------|----------|----------|
| Particles >4µm | ASTM D7647 | >5000 | 1353 | 1063 | --- |
| Particles >6µm | ASTM D7647 | >1300 | 242 | 167 | --- |
| Particles >14µm | ASTM D7647 | >160 | 14 | 9 | --- |
| Particles >21µm | ASTM D7647 | >40 | 3 | 3 | --- |
| Particles >38µm | ASTM D7647 | >10 | 0 | 0 | --- |
| Particles >71µm | ASTM D7647 | >3 | 0 | 0 | --- |
| Oil Cleanliness | ISO 4406 (c) | >19/17/14 | 18/15/11 | 17/15/10 | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------|---------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | ▲ 4.88 | ▲ 4.80 | --- |



OIL ANALYSIS REPORT



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WCM2320491 **Received** : 27 Sep 2023
Lab Number : 05962206 **Diagnosed** : 28 Sep 2023
Unique Number : 10668757 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: MPC)

LIBERTY ELEVATOR
 63 E 24TH ST
 PATERSON, NJ
 US 07514
 Contact: LOU
 louis@libertyelevator.com
 T: (973)279-1390
 F: (973)279-2138

Certificate L2367
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| Silt | scalar | *Visual | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | --- |
| Free Water | scalar | *Visual | | NEG | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 38.6 | 38.8 | --- |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
| Color | | | | | no image |
| Bottom | | | | | no image |
| MPC | | | | no image | no image |

GRAPHS

