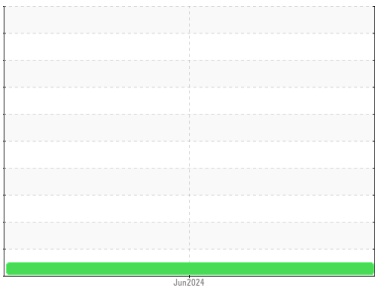
# OIL ANALYSIS REPORT

Sample Rating Trend




NORMAL

Area
## AIM Recycling - 888094
Machine Id
## FK418-RC
Component
**Hydraulic System**
Fluid
**AW HYDRAULIC OIL ISO 32 (--- GAL)**

## DIAGNOSIS

**Recommendation**
We certify that this oil is clean, that the additives are at acceptable levels, and that it is suitable for use.

**Fluid Condition**
Visc @ 100°C is abnormally high. Visc @ 40°C is abnormally high.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Machine ID | | Client Info | | **Harris Baler** | --- | --- |
| Department | | Client Info | | **Sales** | --- | --- |
| Sample From | | Client Info | | **Machine** | --- | --- |
| Production Stage | | Client Info | | **Lab Reclaim** | --- | --- |
| Sent to WC | | Client Info | | **06/13/2024** | --- | --- |
| Sample Number | | Client Info | | **E30002386** | --- | --- |
| Sample Date | | Client Info | | **13 Jun 2024** | --- | --- |
| Machine Age | hrs | Client Info | | **0** | --- | --- |
| Oil Age | hrs | Client Info | | **0** | --- | --- |
| Oil Changed | | Client Info | | **N/A** | --- | --- |
| Sample Status | | | | **NORMAL** | --- | --- |

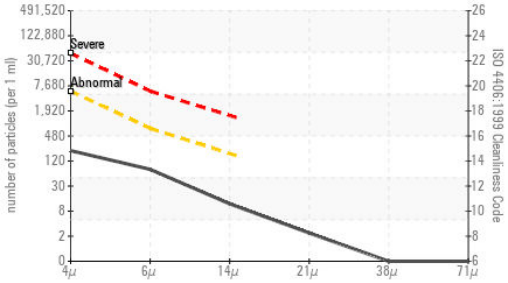
| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185(m) | >20 | **2** | --- | --- |
| Chromium | ppm | ASTM D5185(m) | >20 | **1** | --- | --- |
| Nickel | ppm | ASTM D5185(m) | >20 | **<1** | --- | --- |
| Titanium | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Silver | ppm | ASTM D5185(m) | | **1** | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >20 | **<1** | --- | --- |
| Lead | ppm | ASTM D5185(m) | >20 | **0** | --- | --- |
| Copper | ppm | ASTM D5185(m) | >20 | **5** | --- | --- |
| Tin | ppm | ASTM D5185(m) | >20 | **0** | --- | --- |
| Antimony | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Beryllium | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Cadmium | ppm | ASTM D5185(m) | | **0** | --- | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185(m) | 5 | **<1** | --- | --- |
| Barium | ppm | ASTM D5185(m) | 5 | **0** | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) | 5 | **0** | --- | --- |
| Manganese | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Magnesium | ppm | ASTM D5185(m) | 25 | **4** | --- | --- |
| Calcium | ppm | ASTM D5185(m) | 200 | **21** | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) | 300 | **254** | --- | --- |
| Zinc | ppm | ASTM D5185(m) | 370 | **127** | --- | --- |
| Sulfur | ppm | ASTM D5185(m) | 2500 | **766** | --- | --- |
| Lithium | ppm | ASTM D5185(m) | | **<1** | --- | --- |

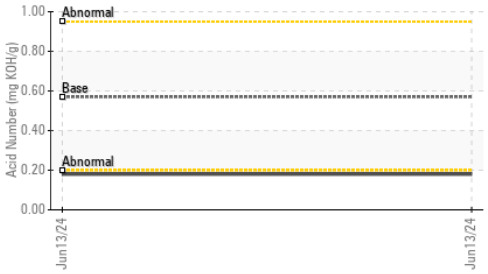
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185(m) | >15 | **1** | --- | --- |
| Sodium | ppm | ASTM D5185(m) | | **2** | --- | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | **1** | --- | --- |
| Water | % | ASTM D6304* | >0.05 | **0.002** | --- | --- |
| ppm Water | ppm | ASTM D6304* | >500 | **20** | --- | --- |

# OIL ANALYSIS REPORT

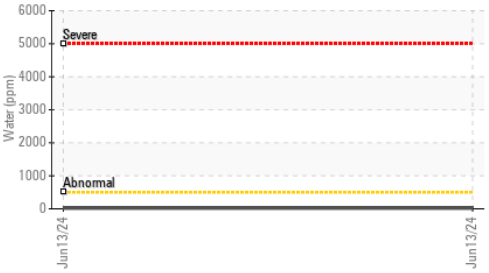
Particle Count




Acid Number

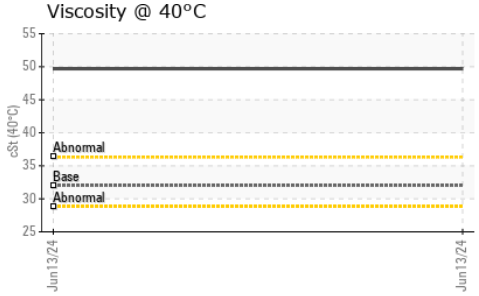



Water (KF)




Viscosity @ 100°C


Viscosity @ 40°C

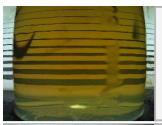



| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Particles >4µm | | ASTM D7647 | >5000 | **188** | --- | --- |
| Particles >6µm | | ASTM D7647 | >640 | **67** | --- | --- |
| Particles >14µm | | ASTM D7647 | >160 | **10** | --- | --- |
| Particles >21µm | | ASTM D7647 | >40 | **2** | --- | --- |
| Particles >38µm | | ASTM D7647 | >10 | **0** | --- | --- |
| Particles >71µm | | ASTM D7647 | >3 | **0** | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >19/16/14 | **15/13/10** | --- | --- |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.57 | **0.18** | --- | --- |

| 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* | >0.05 | **NEG** | --- | --- |
| Free Water | scalar | Visual* | | **NEG** | --- | --- |

| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D7279(m) | 32 | **49.7** | --- | --- |
| Visc @ 100°C | cSt | ASTM D7279(m) | 5.4 | **7.7** | --- | --- |
| Viscosity Index (VI) | Scale | ASTM D2270* | 102 | **120** | --- | --- |

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

ISO 17025:2017 Accredited Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
**Sample No.** : E30002386 **Received** : 18 Jun 2024
**Lab Number** : 02642596 **Tested** : 19 Jun 2024
**Unique Number** : 5800135 **Diagnosed** : 09 Jul 2024 - Tatiana Sorkina
**Test Package** : IND 2 ( Additional Tests: KF, KV100, VI )

*To discuss this sample report, contact Customer Service at 1-905-372-2251.*
*Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.*
*Validity of results and interpretation are based on the sample and information as supplied.*

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