



Work Order: 11871

EB/D-113

|                                             |                      |                          |
|---------------------------------------------|----------------------|--------------------------|
| Description: Inspections and Repairs        | GRO-8873/8946/8949   | Date Started: 2021-02-04 |
| Equipment: E554 Hitachi ZX470LC-5 Excavator | GRO-8950/8503/8824   |                          |
| Serial#: HCMJAA70T00030162                  | 4607 Hours           |                          |
|                                             | RD-2021-124 Insheet  |                          |
|                                             | RD-2021-154 Outsheet |                          |

Segment: 1 Parts

| Trans | Actual Date | Source  | Details                               | STATUS | UM | Units               | Price  | Total Cost |
|-------|-------------|---------|---------------------------------------|--------|----|---------------------|--------|------------|
| 857   | 08/18/21    | EMParts | 4134372R Shim-110mm Id x 1.0mm Thk    |        | EA | 3.000               | 12.83  | 38.49      |
| 880   | 02/22/21    | EMParts | 24505 Lock-Out Lever Kit              |        | EA | 1.000               | 19.76  | 19.76      |
| 881   | 02/22/21    | EMParts | 2484 Master Disconnect Switch         |        | EA | 1.000               | 70.07  | 70.07      |
| 1016  | 03/24/21    | EMParts | 20160300581 Pin-Locking (7/8"x5 3/4") |        | EA | 1.000               | 25.55  | 25.55      |
| 1017  | 03/24/21    | EMParts | 600214 Plug(-12 ORB)                  |        | EA | 1.000               | 7.09   | 7.09       |
|       |             |         |                                       |        |    | Labour Total        | 0.00   |            |
|       |             |         |                                       |        |    | Parts Total         | 160.96 |            |
|       |             |         |                                       |        |    | Miscellaneous Total | 0.00   |            |

Segment: 2 Insheet and Outsheet Inspection

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units               | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|---------------------|-------|------------|
| 1492  | 03/25/21    | PR     | Employee: 2395 Nickolas Schou |        | HRS | 3.500               |       |            |
|       |             |        |                               |        |     | Labour Total        | 3.50  |            |
|       |             |        |                               |        |     | Parts Total         | 0.00  |            |
|       |             |        |                               |        |     | Miscellaneous Total | 0.00  |            |

Segment: 3 Repair Cab Door latch broken off at welds in cab frame

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units               | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|---------------------|-------|------------|
| 624   | 03/10/21    | PR     | Employee: 2611 Matthew Walter |        | HRS | 5.500               |       |            |
| 625   | 03/11/21    | PR     | Employee: 2611 Matthew Walter |        | HRS | 1.500               |       |            |
|       |             |        |                               |        |     | Labour Total        | 7.00  |            |
|       |             |        |                               |        |     | Parts Total         | 0.00  |            |
|       |             |        |                               |        |     | Miscellaneous Total | 0.00  |            |

Segment: 4 T/S and Repair Washer fluid nozzles

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 888   | 03/12/21    | PR     | Employee: 2611 Matthew Walter |        | HRS | 0.500 |       |            |



**Work Order: 11871**

|                     |      |
|---------------------|------|
| Labour Total        | 0.50 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |

**Segment: 5 R&R Thumb and weld on**

*Q/A Thumb/arm pin missing plug for pin lock.  
Thumb is welded too low on arm, bends on full stroke and  
is causing leak.*

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 623   | 03/09/21    | PR     | Employee: 2611 Matthew Walter |        | HRS | 6.500 |       |            |
| 1172  | 03/15/21    | PR     | Employee: 2611 Matthew Walter |        | HRS | 0.500 |       |            |
| 1174  | 03/16/21    | PR     | Employee: 2611 Matthew Walter |        | HRS | 2.500 |       |            |
| 1175  | 03/17/21    | PR     | Employee: 2611 Matthew Walter |        | HRS | 6.000 |       |            |
| 1176  | 03/19/21    | PR     | Employee: 2611 Matthew Walter |        | HRS | 1.000 |       |            |
| 1491  | 03/24/21    | PR     | Employee: 2395 Nickolas Schou |        | HRS | 9.500 |       |            |
| 1493  | 03/25/21    | PR     | Employee: 2395 Nickolas Schou |        | HRS | 1.000 |       |            |

|                     |       |
|---------------------|-------|
| Labour Total        | 27.00 |
| Parts Total         | 0.00  |
| Miscellaneous Total | 0.00  |

**Segment: 6 T/S Bucket Cylinder**

**Segment: 7 Clean up wiring in cab and remount F/E Bracket**

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 626   | 03/11/21    | PR     | Employee: 2611 Matthew Walter |        | HRS | 0.500 |       |            |
| 889   | 03/12/21    | PR     | Employee: 2611 Matthew Walter |        | HRS | 1.000 |       |            |

|                     |      |
|---------------------|------|
| Labour Total        | 1.50 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |

**Segment: 8 Check and Adjust Fluid Levels**

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 1173  | 03/15/21    | PR     | Employee: 2611 Matthew Walter |        | HRS | 0.500 |       |            |

|                     |      |
|---------------------|------|
| Labour Total        | 0.50 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |



Work Order: 11871

Segment: 9 Install Lock out Switch

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 890   | 03/12/21    | PR     | Employee: 2611 Matthew Walter |        | HRS | 4.000 |       |            |

|                            |               |
|----------------------------|---------------|
| Labour Total               | 4.00          |
| Parts Total                | 0.00          |
| Miscellaneous Total        | 0.00          |
| <b>Labour Total</b>        | <b>44.00</b>  |
| <b>Parts Total</b>         | <b>160.96</b> |
| <b>Miscellaneous Total</b> | <b>0.00</b>   |

|                                                    |                                              |                                 |
|----------------------------------------------------|----------------------------------------------|---------------------------------|
| <b>Description:</b> Rental Return - Emsco          | 4607 Hours                                   | <b>Date Started:</b> 2021-02-04 |
| <b>Equipment:</b> E554 Hitachi ZX470LC-5 Excavator | RD-2021-124 Insheet<br>RD-2021-154 Outsheets |                                 |
| <b>Serial#:</b> HCMJAA70T00030162                  |                                              |                                 |

Segment: 1 Parts

| Trans | Actual Date | Source  | Details                                | STATUS | UM | Units  | Price  | Total Cost |
|-------|-------------|---------|----------------------------------------|--------|----|--------|--------|------------|
| 567   | 03/12/21    | EMParts | 1554200 Cable-20' Positive Air Shut Of |        | EA | 1.000  | 107.32 | 107.32     |
| 874   | 02/22/21    | EMParts | AT497535 Mirror                        |        | EA | 1.000  | 104.15 | 104.15     |
| 875   | 02/22/21    | EMParts | Dyed Diesel Dyed Diesel                |        | EA | 56.780 | 0.87   | 49.68      |
| 876   | 02/22/21    | EMParts | FYA00003014 Vent Louver-Round          |        | EA | 1.000  | 37.02  | 37.02      |
| 877   | 02/22/21    | EMParts | FYA00026807 Knob-Radio & Heater        |        | EA | 1.000  | 6.00   | 6.00       |
| 878   | 02/22/21    | EMParts | FYA00070858 Strainer-Fuel              |        | EA | 1.000  | 79.13  | 79.13      |

|                     |        |
|---------------------|--------|
| Labour Total        | 0.00   |
| Parts Total         | 383.30 |
| Miscellaneous Total | 0.00   |

Segment: 2 Inspections

| Trans | Actual Date | Source | Details                   | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|---------------------------|--------|-----|-------|-------|------------|
| 350   | 02/04/21    | PR     | Employee: 2471 Greg Royer |        | HRS | 2.500 |       |            |

|                     |      |
|---------------------|------|
| Labour Total        | 2.50 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |

Segment: 3 Wash and clean unit



Work Order: 11872

| Trans | Actual Date | Source  | Details                        | STATUS | UM  | Units               | Price  | Total Cost |
|-------|-------------|---------|--------------------------------|--------|-----|---------------------|--------|------------|
| 863   | 02/18/21    | PR      | Employee: 2623 Brenton Woolman |        | HRS | 3.000               |        |            |
| 864   | 02/19/21    | PR      | Employee: 2623 Brenton Woolman |        | HRS | 6.500               |        |            |
| 1164  | 02/22/21    | PR      | Employee: 2623 Brenton Woolman |        | HRS | 6.000               |        |            |
| 1489  | 03/25/21    | PR      | Employee: 2623 Brenton Woolman |        | HRS | 3.000               |        |            |
| 1490  | 03/26/21    | PR      | Employee: 2623 Brenton Woolman |        | HRS | 1.500               |        |            |
| 879   | 02/22/21    | EMParts | Wash2 Wash                     |        | S   | 1.000               | 0.00   | 750.00     |
|       |             |         |                                |        |     | <hr/>               |        |            |
|       |             |         |                                |        |     | Labour Total        | 20.00  |            |
|       |             |         |                                |        |     | Parts Total         | 0.00   |            |
|       |             |         |                                |        |     | Miscellaneous Total | 750.00 |            |

**Segment: 4 Replace radio knob, vent, fuel screen and R/H Mirror**

*Tune AM/FM Switch Dial Missing(Switch works)  
L/R Vent broken in cab  
R/H Mirror needs replacing.  
Fuel screen missing*

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units               | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|---------------------|-------|------------|
| 621   | 03/10/21    | PR     | Employee: 2611 Matthew Walter |        | HRS | 1.000               |       |            |
|       |             |        |                               |        |     | <hr/>               |       |            |
|       |             |        |                               |        |     | Labour Total        | 1.00  |            |
|       |             |        |                               |        |     | Parts Total         | 0.00  |            |
|       |             |        |                               |        |     | Miscellaneous Total | 0.00  |            |

**Segment: 5 Reconnect P.A.S.S. and Test**

*P.A.S.S. cable not connected*

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units               | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|---------------------|-------|------------|
| 887   | 03/12/21    | PR     | Employee: 2611 Matthew Walter |        | HRS | 1.000               |       |            |
| 1170  | 03/15/21    | PR     | Employee: 2611 Matthew Walter |        | HRS | 5.000               |       |            |
| 1171  | 03/16/21    | PR     | Employee: 2611 Matthew Walter |        | HRS | 1.000               |       |            |
| 1488  | 03/22/21    | PR     | Employee: 2395 Nickolas Schou |        | HRS | 9.500               |       |            |
|       |             |        |                               |        |     | <hr/>               |       |            |
|       |             |        |                               |        |     | Labour Total        | 16.50 |            |
|       |             |        |                               |        |     | Parts Total         | 0.00  |            |
|       |             |        |                               |        |     | Miscellaneous Total | 0.00  |            |

**Segment: 6 T/S and Repair Rear Camera**

*Rear Camera displays as blue screen on monitor.*

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 622   | 03/10/21    | PR     | Employee: 2611 Matthew Walter |        | HRS | 1.000 |       |            |



Work Order: 11872

|                            |               |
|----------------------------|---------------|
| Labour Total               | 1.00          |
| Parts Total                | 0.00          |
| Miscellaneous Total        | 0.00          |
| <b>Labour Total</b>        | <b>41.00</b>  |
| <b>Parts Total</b>         | <b>383.30</b> |
| <b>Miscellaneous Total</b> | <b>750.00</b> |

**Description:** Outsheet & R&R fuel strainer 4726 HRS, GRO 8931/8930/8933 **Date Started:** 2021-08-12  
**Equipment:** E554 Hitachi ZX470LC-5 Excavator  
**Serial#:** HCMJAA70T00030162

**Segment: 1 parts**

*Union Tractor parts removed - Used 450 Series instead of 400 Series teeth  
 4L X WIPER FLUID*

| Trans | Actual Date | Source  | Details                                             | STATUS | UM | Units  | Price | Total Cost |
|-------|-------------|---------|-----------------------------------------------------|--------|----|--------|-------|------------|
| 402   | 08/11/21    | AP      | Vendor: 10321 Union Tractor Ltd. 040-221546 Line: 1 |        | LS | 0.000  | 0.00  | 252.36     |
| 396   | 08/12/21    | EMParts | FYA00070858 Strainer-Fuel                           |        | EA | 1.000  | 69.70 | 69.70      |
| 561   | 08/11/21    | EMParts | 7T3402 Tooth - Twin Tiger                           |        | EA | -5.000 | 37.23 | -186.14    |
| 562   | 08/11/21    | EMParts | 1167408 Pin-Heavy Duty J400 Family                  |        | EA | -5.000 | 7.04  | -35.22     |
| 563   | 08/11/21    | EMParts | 1167409 Retainer-Heavy Duty J400 Family             |        | EA | -4.000 | 7.19  | -28.75     |
| 564   | 08/11/21    | EMParts | SEL 1167409 Retainer-Heavy Duty J400 Family         |        | EA | -1.000 | 2.25  | -2.25      |
| 582   | 08/11/21    | EMParts | Zinc Free Zinc Free Hydraulic Oil (PER LITRE)       |        | EA | 10.000 | 5.26  | 52.60      |

|                     |        |
|---------------------|--------|
| Labour Total        | 0.00   |
| Parts Total         | 122.30 |
| Miscellaneous Total | 0.00   |

**Segment: 2 Outsheet Checkover & Perform DPF Regeneration forced**

| Trans | Actual Date | Source | Details                      | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|------------------------------|--------|-----|-------|-------|------------|
| 756   | 08/11/21    | PR     | Employee: 1266 Braden Bitzer |        | HRS | 3.000 |       |            |
| 757   | 08/12/21    | PR     | Employee: 1266 Braden Bitzer |        | HRS | 1.000 |       |            |

|                     |      |
|---------------------|------|
| Labour Total        | 4.00 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |

**Segment: 3 R&R fuel strainer**

| Trans | Actual Date | Source | Details                      | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|------------------------------|--------|-----|-------|-------|------------|
| 758   | 08/13/21    | PR     | Employee: 1266 Braden Bitzer |        | HRS | 1.000 |       |            |



## Work Order: 12351

|                     |        |
|---------------------|--------|
| Labour Total        | 1.00   |
| Parts Total         | 0.00   |
| Miscellaneous Total | 0.00   |
| <hr/>               |        |
| Labour Total        | 5.00   |
| Parts Total         | 122.30 |
| Miscellaneous Total | 0.00   |

|                                                    |                              |                                 |
|----------------------------------------------------|------------------------------|---------------------------------|
| <b>Description:</b> 350 Hour Service and Cork      | Unit at TMX Edmonton Site.   | <b>Date Started:</b> 2021-11-17 |
| <b>Equipment:</b> E554 Hitachi ZX470LC-5 Excavator | 4894 Hours                   |                                 |
|                                                    | GRO#11965                    |                                 |
| <b>Serial#:</b> HCMJAA70T00030162                  | Hours not reported GRO 12596 |                                 |

### Segment: 1 Parts

| Trans | Actual Date | Source  | Details                         | STATUS | UM | Units  | Price | Total Cost |
|-------|-------------|---------|---------------------------------|--------|----|--------|-------|------------|
| 282   | 08/09/22    | EMParts | 5W40 Spectra 5W40               |        | I  | 40.000 | 5.92  | 236.85     |
| 290   | 11/17/21    | EMParts | 1421340 Filter-Air Primary      |        | EA | 1.000  | 47.34 | 47.34      |
| 291   | 11/17/21    | EMParts | 4632689 Filter-Cab Air(4S00686) |        | EA | 1.000  | 29.59 | 29.59      |
| 292   | 11/17/21    | EMParts | 4676385 Fuel / Water Seperator  |        | EA | 2.000  | 32.76 | 65.53      |
| 293   | 11/17/21    | EMParts | 8981430410 Filter-Fuel          |        | EA | 2.000  | 28.49 | 56.99      |
| 294   | 11/17/21    | EMParts | FYA00001490 Filter-Cab Air      |        | EA | 1.000  | 17.59 | 17.59      |
| 295   | 11/17/21    | EMParts | P550596 Filter-Oil              |        | EA | 2.000  | 27.54 | 55.08      |

|                     |        |
|---------------------|--------|
| Labour Total        | 0.00   |
| Parts Total         | 508.97 |
| Miscellaneous Total | 0.00   |

### Segment: 2 350 Hour Service

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 847   | 11/19/21    | PR     | Employee: 2395 Nickolas Schou |        | HRS | 2.500 |       |            |

|                     |      |
|---------------------|------|
| Labour Total        | 2.50 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |

### Segment: 3 Cork Unit

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 123   | 12/03/21    | PR     | Employee: 2395 Nickolas Schou |        | HRS | 7.500 |       |            |
| 124   | 12/04/21    | PR     | Employee: 2395 Nickolas Schou |        | HRS | 2.000 |       |            |



**Work Order: 12596**

|                            |               |
|----------------------------|---------------|
| Labour Total               | 9.50          |
| Parts Total                | 0.00          |
| Miscellaneous Total        | 0.00          |
| <hr/>                      |               |
| <b>Labour Total</b>        | <b>12.00</b>  |
| <b>Parts Total</b>         | <b>508.97</b> |
| <b>Miscellaneous Total</b> | <b>0.00</b>   |

|                                                                                                                                |                                 |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>Description:</b> Repair hyd leak<br><b>Equipment:</b> E554 Hitachi ZX470LC-5 Excavator<br><b>Serial#:</b> HCMJAA70T00030162 | <b>Date Started:</b> 2022-01-10 |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------|

**Segment: 1 Parts**

**Segment: 2 Repair for no start**

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 294   | 01/07/22    | PR     | Employee: 2611 Matthew Walter |        | HRS | 0.500 |       |            |

|                     |      |
|---------------------|------|
| Labour Total        | 0.50 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |

**Segment: 3 T/S and repair hyd leak**

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 295   | 01/07/22    | PR     | Employee: 2611 Matthew Walter |        | HRS | 1.500 |       |            |

|                            |             |
|----------------------------|-------------|
| Labour Total               | 1.50        |
| Parts Total                | 0.00        |
| Miscellaneous Total        | 0.00        |
| <hr/>                      |             |
| <b>Labour Total</b>        | <b>2.00</b> |
| <b>Parts Total</b>         | <b>0.00</b> |
| <b>Miscellaneous Total</b> | <b>0.00</b> |

|                                                                                                                                      |                                           |                                 |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------|
| <b>Description:</b> Repair Battery cables<br><b>Equipment:</b> E554 Hitachi ZX470LC-5 Excavator<br><b>Serial#:</b> HCMJAA70T00030162 | Unit at TMX Edmonton Site.<br>5216 Hours. | <b>Date Started:</b> 2022-01-19 |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------|

**Segment: 1 Parts**



Work Order: 12756

| Trans | Actual Date | Source  | Details           | STATUS | UM | Units  | Price | Total Cost |
|-------|-------------|---------|-------------------|--------|----|--------|-------|------------|
| 1102  | 07/29/22    | EMParts | 5W40 Spectra 5W40 |        | I  | 38.000 | 5.92  | 225.01     |

|                     |        |
|---------------------|--------|
| Labour Total        | 0.00   |
| Parts Total         | 225.01 |
| Miscellaneous Total | 0.00   |

#### Segment: 2 Repair Battery Cables

*Remove & build burnt battery cable. Install & test.*

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 851   | 01/21/22    | PR     | Employee: 2611 Matthew Walter |        | HRS | 1.500 |       |            |

|                     |      |
|---------------------|------|
| Labour Total        | 1.50 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |

#### Segment: 3 350 Hour Service

*350 Hour Service*

| Trans | Actual Date | Source  | Details                         | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|---------|---------------------------------|--------|-----|-------|-------|------------|
| 939   | 02/09/22    | PR      | Employee: 2611 Matthew Walter   |        | HRS | 2.500 |       |            |
| 514   | 01/26/22    | EMParts | 4632689 Filter-Cab Air(4S00686) |        | EA  | 1.000 | 29.01 | 29.01      |
| 515   | 01/26/22    | EMParts | 4676385 Fuel / Water Separator  |        | EA  | 2.000 | 42.58 | 85.17      |
| 516   | 01/26/22    | EMParts | 8981527381 Filter-Fuel          |        | EA  | 2.000 | 44.63 | 89.26      |
| 517   | 01/26/22    | EMParts | FYA00001490 Filter-Cab Air      |        | EA  | 1.000 | 52.35 | 52.35      |
| 518   | 01/26/22    | EMParts | P550596 Filter-Oil              |        | EA  | 2.000 | 32.88 | 65.76      |
| 519   | 01/26/22    | EMParts | P777868 Filter-Air Primary      |        | EA  | 1.000 | 49.00 | 49.00      |

|                     |        |
|---------------------|--------|
| Labour Total        | 2.50   |
| Parts Total         | 370.55 |
| Miscellaneous Total | 0.00   |

#### Segment: 4 Repair oil leaks

*Repair oil leak @ pressure side of pump. Pull vacuum & remove line.  
Replace O- Ring.*

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 938   | 02/08/22    | PR     | Employee: 2611 Matthew Walter |        | HRS | 1.000 |       |            |
| 940   | 02/09/22    | PR     | Employee: 2611 Matthew Walter |        | HRS | 1.000 |       |            |
| 1803  | 01/27/22    | PR     | Employee: 2611 Matthew Walter |        | HRS | 0.500 |       |            |



## Work Order: 12756

|                     |      |
|---------------------|------|
| Labour Total        | 2.50 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |

### Segment: 5 Flip cutting edge on bucket

-Hyd Leak on boom for aux couplers.  
 -Hyd leak on boom to thumb  
 -Adjust mirror & tighten

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 2010  | 02/23/22    | PR     | Employee: 2611 Matthew Walter |        | HRS | 2.000 |       |            |

|                     |      |
|---------------------|------|
| Labour Total        | 2.00 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |

|                            |               |
|----------------------------|---------------|
| <b>Labour Total</b>        | <b>8.50</b>   |
| <b>Parts Total</b>         | <b>595.56</b> |
| <b>Miscellaneous Total</b> | <b>0.00</b>   |

**Description:** T/S, Repair T-Stat and Fuel Cap  
**Equipment:** E554 Hitachi ZX470LC-5 Excavator  
**Serial#:** HCMJAA70T00030162  
 Unit at TMX Edmonton Site.  
 5389 Hours.  
**Date Started:** 2022-03-14

### Segment: 1 Parts

| Trans | Actual Date | Source  | Details                      | STATUS | UM | Units | Price  | Total Cost |
|-------|-------------|---------|------------------------------|--------|----|-------|--------|------------|
| 325   | 03/14/22    | EMParts | FYA00057006 Cap-Fuel         |        | EA | 1.000 | 166.11 | 166.11     |
| 326   | 03/14/22    | EMParts | 8980881010 Gasket            |        | EA | 4.000 | 10.09  | 40.36      |
| 327   | 03/14/22    | EMParts | 1137790110 Seal              |        | EA | 2.000 | 52.74  | 105.48     |
| 328   | 03/14/22    | EMParts | 8980890910 Gasket-Thermostat |        | EA | 1.000 | 15.50  | 15.50      |
| 329   | 03/14/22    | EMParts | 8983192540 Thermostat        |        | EA | 2.000 | 236.69 | 473.38     |

|                     |        |
|---------------------|--------|
| Labour Total        | 0.00   |
| Parts Total         | 800.83 |
| Miscellaneous Total | 0.00   |

### Segment: 2 T/S and Repair T-Stat

Heater doesn't when operating but works when idling. Ran machine w/ heater on & works well Run w/ A/C & heat on & is weaker but still blows warm. Tested A/C. Test w/no heat & no fan might be cooling too well during cold days. Check coolant temps and all normal. Can't justify replacing thermostat due to findings and can't replicate issue.

Bolts on inspection plate for belly was missing. Replace bolts.



## Work Order: 12906

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 749   | 03/16/22    | PR     | Employee: 2611 Matthew Walter |        | HRS | 1.000 |       |            |
| 750   | 03/17/22    | PR     | Employee: 2611 Matthew Walter |        | HRS | 0.500 |       |            |

Labour Total 1.50

Parts Total 0.00

Miscellaneous Total 0.00

Labour Total 1.50

Parts Total 800.83

Miscellaneous Total 0.00

**Description:** Replace Radiator and 350 Hour Service  
**Equipment:** E554 Hitachi ZX470LC-5 Excavator  
**Serial#:** HCMJAA70T00030162  
 Unit at TMX Edmonton Site  
 7704 Hours.  
**Date Started:** 2022-04-06

### Segment: 1 Parts

| Trans | Actual Date | Source                       | Details                                            | STATUS | UM | Units | Price    | Total Cost |
|-------|-------------|------------------------------|----------------------------------------------------|--------|----|-------|----------|------------|
| 2169  | 04/27/22    | AP                           | Vendor: 10401 RBC Avion Visa Apr 22_Lance Line: 11 |        | LS | 0.000 | 0.00     | 404.75     |
| 116   | 04/07/22    | EMParts                      | 1421340 Filter-Air Primary                         |        | EA | 1.000 | 47.10    | 47.10      |
| 117   | 04/07/22    | EMParts                      | 4632689 Filter-Cab Air(4S00686)                    |        | EA | 1.000 | 26.01    | 26.01      |
| 118   | 04/07/22    | EMParts                      | 4676385 Fuel / Water Sperator                      |        | EA | 2.000 | 44.57    | 89.15      |
| 119   | 04/07/22    | EMParts                      | 8981527381 Filter-Fuel                             |        | EA | 2.000 | 40.41    | 80.81      |
| 120   | 04/07/22    | EMParts                      | FYA00001490 Filter-Cab Air                         |        | EA | 1.000 | 22.02    | 22.02      |
| 121   | 04/07/22    | EMParts                      | P550596 Filter-Oil                                 |        | EA | 2.000 | 29.14    | 58.28      |
| 142   | 04/08/22    | EMParts                      | FXB00001604 Weather Stripping                      |        | EA | 1.000 | 21.59    | 21.59      |
| 143   | 04/08/22    | EMParts                      | FXB00001605 Weather Stripping                      |        | EA | 1.000 | 24.91    | 24.91      |
| 144   | 04/08/22    | EMParts                      | FXB00001606 Radiator W/O Filler Neck (470L         |        | EA | 1.000 | 3,651.66 | 3,651.66   |
|       |             | PO - Open - #1021054 - 10401 | Clean And Test Radiators                           |        | LS | 0.00  | 0.00     | 503.95     |

Labour Total 0.00

Parts Total 4,930.23

Miscellaneous Total 0.00

### Segment: 2 Repair Coolant leak and Replace Radiator

*Unit had coolant leak on site, after inspection found leak near radiator. Pulled off appropriate panels and lines and removed both rads for pressure testing. Rear rad failed test and with replaced with new. Front was still good. Re-installed and filled with coolant. During repair found donut clamps. Tested unit and re-installed panels.*

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 669   | 04/04/22    | PR     | Employee: 2395 Nickolas Schou |        | HRS | 2.500 |       |            |
| 670   | 04/05/22    | PR     | Employee: 2395 Nickolas Schou |        | HRS | 4.500 |       |            |
| 1782  | 04/19/22    | PR     | Employee: 2395 Nickolas Schou |        | HRS | 5.500 |       |            |



**GCS Energy Services Ltd.**

**Work Order: 12982**

|      |          |    |                               |     |       |
|------|----------|----|-------------------------------|-----|-------|
| 1783 | 04/20/22 | PR | Employee: 2395 Nickolas Schou | HRS | 5.500 |
| 1786 | 04/21/22 | PR | Employee: 2395 Nickolas Schou | HRS | 1.500 |

|                     |       |
|---------------------|-------|
| Labour Total        | 19.50 |
| Parts Total         | 0.00  |
| Miscellaneous Total | 0.00  |

**Segment: 3 350 Hour Service**

*350 Hour Service*

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 1784  | 04/20/22    | PR     | Employee: 2395 Nickolas Schou |        | HRS | 2.500 |       |            |

|                     |      |
|---------------------|------|
| Labour Total        | 2.50 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |

**Segment: 4 Repair leaks**

*Removed and replaced hydraulic pilot line for thumb that ran from valve bank to under cab.*

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 1785  | 04/20/22    | PR     | Employee: 2395 Nickolas Schou |        | HRS | 2.000 |       |            |
| 1787  | 04/21/22    | PR     | Employee: 2395 Nickolas Schou |        | HRS | 1.500 |       |            |

|                     |      |
|---------------------|------|
| Labour Total        | 3.50 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |

**Segment: 5 Repair for no start**

*Replace cold start fuse and relay.  
 Diag no start issue/no power in cab batteries and cables tested good.  
 Replaced main power relay. Found someone homemade fuse setup where fuseable link should be and test fuse blew again. Unplugged glow plug relay. Install new fuse. Unit fired up. Workers had fuel valve closed so machine died again prime fuel system. Had to fight with the priming.*

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 486   | 05/02/22    | PR     | Employee: 2395 Nickolas Schou |        | HRS | 2.000 |       |            |
| 1788  | 04/29/22    | PR     | Employee: 2471 Greg Royer     |        | HRS | 3.000 |       |            |



**Work Order: 12982**

|                     |      |
|---------------------|------|
| Labour Total        | 5.00 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |

|                            |                 |
|----------------------------|-----------------|
| <b>Labour Total</b>        | <b>30.50</b>    |
| <b>Parts Total</b>         | <b>4,930.23</b> |
| <b>Miscellaneous Total</b> | <b>0.00</b>     |

|                                                    |                         |                                 |
|----------------------------------------------------|-------------------------|---------------------------------|
| <b>Description:</b> Replace Batteries              | 5498 HRS, GRO 9339/9347 | <b>Date Started:</b> 2022-05-19 |
| <b>Equipment:</b> E554 Hitachi ZX470LC-5 Excavator |                         |                                 |
| <b>Serial#:</b> HCMJAA70T00030162                  |                         |                                 |

**Segment: 1 Parts**

| Trans | Actual Date | Source  | Details             | STATUS | UM | Units | Price  | Total Cost |
|-------|-------------|---------|---------------------|--------|----|-------|--------|------------|
| 680   | 05/19/22    | EMParts | 904D Battery-12v-4D |        | EA | 2,000 | 270.01 | 540.03     |

|                     |        |
|---------------------|--------|
| Labour Total        | 0.00   |
| Parts Total         | 540.03 |
| Miscellaneous Total | 0.00   |

**Segment: 2 Replace Batteries**

| Trans | Actual Date | Source | Details                      | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|------------------------------|--------|-----|-------|-------|------------|
| 1770  | 05/17/22    | PR     | Employee: 1266 Braden Bitzer |        | HRS | 1,500 |       |            |
| 1771  | 05/18/22    | PR     | Employee: 1266 Braden Bitzer |        | HRS | 2,000 |       |            |

|                            |                 |
|----------------------------|-----------------|
| Labour Total               | 3.50            |
| Parts Total                | 0.00            |
| Miscellaneous Total        | 0.00            |
| <b>Labour Total</b>        | <b>3.50</b>     |
| <b>Parts Total</b>         | <b>1,043.98</b> |
| <b>Miscellaneous Total</b> | <b>0.00</b>     |

|                                                    |                                 |
|----------------------------------------------------|---------------------------------|
| <b>Description:</b> Replace Fuel Drain Valve       | <b>Date Started:</b> 2022-06-06 |
| <b>Equipment:</b> E554 Hitachi ZX470LC-5 Excavator |                                 |
| <b>Serial#:</b> HCMJAA70T00030162                  |                                 |

**Segment: 1 Parts**



Work Order: 13152

Segment: 2 Replace Fuel Drain Valve

Replace connector for boom light at base of boom.

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units               | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|---------------------|-------|------------|
| 2071  | 05/31/22    | PR     | Employee: 2395 Nickolas Schou |        | HRS | 0.500               |       |            |
|       |             |        |                               |        |     | Labour Total        | 0.50  |            |
|       |             |        |                               |        |     | Parts Total         | 0.00  |            |
|       |             |        |                               |        |     | Miscellaneous Total | 0.00  |            |

Segment: 3 Repair boom light wiring

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units               | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|---------------------|-------|------------|
| 2370  | 06/28/22    | PR     | Employee: 2395 Nickolas Schou |        | HRS | 0.500               |       |            |
|       |             |        |                               |        |     | Labour Total        | 0.50  |            |
|       |             |        |                               |        |     | Parts Total         | 0.00  |            |
|       |             |        |                               |        |     | Miscellaneous Total | 0.00  |            |

Segment: 4 T/S and repair overheating issue

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units               | Price  | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|---------------------|--------|------------|
| 295   | 07/07/22    | PR     | Employee: 2395 Nickolas Schou |        | HRS | 1.500               |        |            |
| 296   | 07/08/22    | PR     | Employee: 2395 Nickolas Schou |        | HRS | 2.000               |        |            |
|       |             |        |                               |        |     | Labour Total        | 3.50   |            |
|       |             |        |                               |        |     | Parts Total         | 0.00   |            |
|       |             |        |                               |        |     | Miscellaneous Total | 0.00   |            |
|       |             |        |                               |        |     | Labour Total        | 4.50   |            |
|       |             |        |                               |        |     | Parts Total         | 503.95 |            |
|       |             |        |                               |        |     | Miscellaneous Total | 0.00   |            |

|                                                    |                                 |                                 |
|----------------------------------------------------|---------------------------------|---------------------------------|
| <b>Description:</b> Inspections and Repairs        | 5646 Hours                      | <b>Date Started:</b> 2022-10-07 |
| <b>Equipment:</b> E554 Hitachi ZX470LC-5 Excavator | 5845 next service hours         |                                 |
|                                                    | RD-2022-253 Insheet             |                                 |
| <b>Serial#:</b> HCMJAA70T00030162                  | GRO#11381/11348/11376/11342/113 |                                 |
|                                                    | 39/11340/11343/11406            |                                 |

Segment: 1 Parts

| Trans | Actual Date | Source | Details                                              | STATUS | UM | Units | Price | Total Cost |
|-------|-------------|--------|------------------------------------------------------|--------|----|-------|-------|------------|
| 1644  | 01/04/23    | AP     | Vendor: 10202 McLevin Industries Inc. 205479 Line: 1 |        | LS | 0.000 | 0.00  | 107.00     |
| 2175  | 01/04/23    | AP     | Vendor: 10202 McLevin Industries Inc. 205479 Line: 2 |        | LS | 0.000 | 0.00  | -107.00    |



**GCS Energy Services Ltd.**

## Work Order: 13504

|      |          |         |                                                                      |    |         |        |        |
|------|----------|---------|----------------------------------------------------------------------|----|---------|--------|--------|
| 2176 | 01/04/23 | AP      | Vendor: 10202 McLevin Industries Inc. 205479 Line: 3                 | LS | 0.000   | 0.00   | 107.00 |
| 2279 | 10/07/22 | AP      | Vendor: 10416 Hose Headquarters (Red Deer) Ltd. S6736764.001 Line: 3 | EA | 8.000   | 4.92   | 39.36  |
| 3    | 01/03/23 | EMParts | AT417639 Compressor Kit-Valve W/Knob &                               | EA | 1.000   | 544.07 | 544.07 |
| 4    | 01/03/23 | EMParts | AT497535 Mirror                                                      | EA | 1.000   | 128.58 | 128.58 |
| 5    | 01/03/23 | EMParts | FYA00003014 Vent Louver-Round                                        | EA | 1.000   | 36.57  | 36.57  |
| 16   | 01/04/23 | EMParts | J932202 Bolt                                                         | EA | 8.000   | 15.61  | 124.88 |
| 82   | 01/10/23 | EMParts | 4386648VW Bottom Roller                                              | EA | 2.000   | 451.24 | 902.48 |
| 83   | 01/10/23 | EMParts | J932202VW Bolt Roller Bottom                                         | EA | 8.000   | 5.43   | 43.44  |
| 89   | 01/10/23 | EMParts | 0980509 Seal-O-Ring                                                  | EA | 1.000   | 5.10   | 5.10   |
| 90   | 01/10/23 | EMParts | CH17167 Seal-O-Ring                                                  | EA | 1.000   | 4.93   | 4.93   |
| 91   | 01/10/23 | EMParts | CH19111 Seal-O-Ring                                                  | EA | 1.000   | 3.90   | 3.90   |
| 92   | 01/10/23 | EMParts | MIU804787 Seal-O-Ring                                                | EA | 1.000   | 3.90   | 3.90   |
| 284  | 01/18/23 | EMParts | 60/40 Rad-Cool Antifreeze                                            | EA | 3.000   | 5.19   | 15.58  |
| 285  | 01/18/23 | EMParts | Dyed Diesel Dyed Diesel                                              | EA | 340.690 | 1.28   | 437.09 |
| 286  | 01/18/23 | EMParts | Zink Free Multoil 5w20 Zink-Free Hydraul                             | EA | 20.000  | 4.84   | 96.75  |
|      |          |         | PO - Open - #1023526 - 10202 Battery Cover                           | LS | 0.00    | 0.00   | 107.00 |
|      |          |         | PO - Open - #1023590 - 10416 Hose Assembly                           | EA | 1.00    | 106.80 | 106.80 |

Labour Total 0.00

Parts Total 2,707.43

Miscellaneous Total 0.00

### Segment: 2 Inspections

-outsheet  
-top up fuel  
-couple c/u bucket and park unit up front

| Trans | Actual Date | Source | Details                        | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|--------------------------------|--------|-----|-------|-------|------------|
| 599   | 10/07/22    | PR     | Employee: 2915 Scott Scrivener |        | HRS | 3.000 |       |            |
| 777   | 01/16/23    | PR     | Employee: 2471 Greg Royer      |        | HRS | 3.000 |       |            |

Labour Total 6.00

Parts Total 0.00

Miscellaneous Total 0.00

### Segment: 3 Wash & Clean Cab

| Trans | Actual Date | Source | Details                        | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|--------------------------------|--------|-----|-------|-------|------------|
| 775   | 01/12/23    | PR     | Employee: 2623 Brenton Woolman |        | HRS | 2.500 |       |            |
| 776   | 01/13/23    | PR     | Employee: 2623 Brenton Woolman |        | HRS | 2.000 |       |            |
| 2241  | 01/03/23    | PR     | Employee: 2623 Brenton Woolman |        | HRS | 2.000 |       |            |
| 2244  | 01/04/23    | PR     | Employee: 2623 Brenton Woolman |        | HRS | 9.500 |       |            |
| 2246  | 01/05/23    | PR     | Employee: 2623 Brenton Woolman |        | HRS | 9.500 |       |            |
| 2248  | 01/06/23    | PR     | Employee: 2623 Brenton Woolman |        | HRS | 8.000 |       |            |

Labour Total 33.50

Parts Total 0.00

Miscellaneous Total 0.00



Work Order: 13504

**Segment: 4 Oil Leak & Replace Donut Clamps**

- hyd leak, check hose clamps
- order parts for fan switch block
- reseal fan solenoid block
- change all donut seals for hoses
- tighten loose filters
- top up hyd oil
- top up coolant
- top up washer fluid

| Trans | Actual Date | Source | Details                        | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|--------------------------------|--------|-----|-------|-------|------------|
| 600   | 10/07/22    | PR     | Employee: 2915 Scott Scrivener |        | HRS | 3.000 |       |            |
| 773   | 01/09/23    | PR     | Employee: 3063 Jordan Yasinski |        | HRS | 1.500 |       |            |
| 774   | 01/11/23    | PR     | Employee: 3063 Jordan Yasinski |        | HRS | 6.500 |       |            |
| 841   | 12/20/22    | PR     | Employee: 3063 Jordan Yasinski |        | HRS | 6.000 |       |            |
| 2242  | 01/03/23    | PR     | Employee: 3063 Jordan Yasinski |        | HRS | 3.500 |       |            |
| 2245  | 01/04/23    | PR     | Employee: 3063 Jordan Yasinski |        | HRS | 6.500 |       |            |

|                     |       |
|---------------------|-------|
| Labour Total        | 27.00 |
| Parts Total         | 0.00  |
| Miscellaneous Total | 0.00  |

**Segment: 5 Repair electrical issues, battery lockout**

- weld handle on battery box cover, test fit lid, grind out holes to fit
- diagnose glow plug issues
- inspect wiring, replace burnt wiring
- replace burnt fuse holders and mount properly
- install cable loom on all wiring and tie up properly
- move battery disconnect
- drill holes for disconnect, build cables for disconnect
- build battery box hold down and paint
- rewire battery cables
- weld in angle iron to job box
- draw new plate for battery cover
- tie up block heater cord and test heater

| Trans | Actual Date | Source | Details                        | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|--------------------------------|--------|-----|-------|-------|------------|
| 838   | 12/15/22    | PR     | Employee: 3063 Jordan Yasinski |        | HRS | 8.500 |       |            |
| 839   | 12/16/22    | PR     | Employee: 3063 Jordan Yasinski |        | HRS | 8.000 |       |            |
| 2243  | 01/03/23    | PR     | Employee: 3063 Jordan Yasinski |        | HRS | 3.500 |       |            |
| 2247  | 01/05/23    | PR     | Employee: 3063 Jordan Yasinski |        | HRS | 1.500 |       |            |

|                     |       |
|---------------------|-------|
| Labour Total        | 21.50 |
| Parts Total         | 0.00  |
| Miscellaneous Total | 0.00  |

**Segment: 6 Repir steps, panels, vents**



## Work Order: 13504

- straighten walkway, straighten bent step, remove broken vent
- remove safety decals
- reinstall bottom pan
- install air filter mount bracket
- order parts for air valve, install parts on unit
- order parts for mirror and install mirror
- order vent louver and install

| Trans | Actual Date | Source | Details                        | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|--------------------------------|--------|-----|-------|-------|------------|
| 840   | 12/16/22    | PR     | Employee: 3063 Jordan Yasinski |        | HRS | 1.500 |       |            |

|                     |      |
|---------------------|------|
| Labour Total        | 1.50 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |

### Segment: 7 Replace two bottom rollers

- pull unit outside, slack off track, remove 2 bottom rollers, buff track rail and new roller, install new rollers, torque bolts according to spec

|                     |          |
|---------------------|----------|
| Labour Total        | 89.50    |
| Parts Total         | 3,211.38 |
| Miscellaneous Total | 0.00     |

|                                             |                          |
|---------------------------------------------|--------------------------|
| Description: Reg Maintenance                | Date Started: 2023-04-27 |
| Equipment: E554 Hitachi ZX470LC-5 Excavator |                          |
| Serial#: HCMJAA70T00030162                  |                          |

### Segment: 1 parts

| Trans               | Actual Date | Source  | Details                                                   | STATUS | UM | Units  | Price | Total Cost |
|---------------------|-------------|---------|-----------------------------------------------------------|--------|----|--------|-------|------------|
| 1843                | 04/26/23    | AP      | Vendor: 32734 Ignite Distribution Ltd 052-267209 Line: 16 | EA     |    | 1.000  | 9.49  | 9.49       |
| 1952                | 04/26/23    | AP      | Vendor: 32734 Ignite Distribution Ltd 052-267209 Line: 22 | EA     |    | 1.000  | 4.23  | 4.23       |
| 45                  | 05/02/23    | EMParts | 8944607061 Relay                                          | EA     |    | 1.000  | 37.26 | 37.26      |
| 576                 | 04/27/23    | EMParts | 4315323 Fuse-45 amp                                       | EA     |    | 4.000  | 7.02  | 28.08      |
| 963                 | 10/25/23    | EMParts | 4315323 Fuse-45 amp                                       | EA     |    | -3.000 | 7.02  | -21.06     |
|                     |             |         | PO - Open - #1024407 - 32734 maxi fuse holder             | EA     |    | 1.00   | 9.49  | 9.49       |
|                     |             |         | PO - Open - #1024407 - 32734 fuse maxi 50A                | EA     |    | 1.00   | 4.23  | 4.23       |
| Labour Total        |             |         |                                                           |        |    | 0.00   |       |            |
| Parts Total         |             |         |                                                           |        |    | 71.72  |       |            |
| Miscellaneous Total |             |         |                                                           |        |    | 0.00   |       |            |

### Segment: 2 Test & R&R Glow plug relay and fuse

5/3/23 Travis Schmidt 0.5 hrs

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 2531  | 05/03/23    | PR     | Employee: 2024 Travis Schmidt |        | HRS | 0.500 |       |            |



Work Order: 14040

|                            |               |
|----------------------------|---------------|
| Labour Total               | 0.50          |
| Parts Total                | 0.00          |
| Miscellaneous Total        | 0.00          |
| <b>Labour Total</b>        | <b>0.50</b>   |
| <b>Parts Total</b>         | <b>789.47</b> |
| <b>Miscellaneous Total</b> | <b>0.00</b>   |

**Description:** Repair for Hydraulics Overheating  
**Equipment:** E554 Hitachi ZX470LC-5 Excavator  
**Serial#:** HCMJAA70T00030162  
**Hours:** 5702  
**GRO#**10705/10713  
**Date Started:** 2023-05-09

Segment: 1 Parts

Segment: 2 T/S Hyd overheating

- cooling system repair
- inspect cooling system, find overflow line to be rotten, cut off end, move line over, reattach new hose clamp, run unit up to engine temp, inspect for leaks: none found
- replace maxi fuse Travis had installed previously in battery box
- hyd heating up issues
- find fan speed to be below threshold needs fan motor
- check delivery pump pressures also below spec

| Trans | Actual Date | Source | Details                    | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|----------------------------|--------|-----|-------|-------|------------|
| 2530  | 05/02/23    | PR     | Employee: 3103 Dallas Wood |        | HRS | 5.000 |       |            |
| 2532  | 05/03/23    | PR     | Employee: 3103 Dallas Wood |        | HRS | 1.000 |       |            |

|                            |               |
|----------------------------|---------------|
| Labour Total               | 6.00          |
| Parts Total                | 0.00          |
| Miscellaneous Total        | 0.00          |
| <b>Labour Total</b>        | <b>6.00</b>   |
| <b>Parts Total</b>         | <b>731.47</b> |
| <b>Miscellaneous Total</b> | <b>0.00</b>   |

**Description:** Inspections and Repairs  
**Equipment:** E554 Hitachi ZX470LC-5 Excavator  
**Serial#:** HCMJAA70T00030162  
**Hours:** 5710 Hours  
**RD-2023-204** Insheet  
**Date Started:** 2023-06-13

Segment: 1 Parts

| Trans | Actual Date | Source | Details | STATUS | UM | Units | Price | Total Cost |
|-------|-------------|--------|---------|--------|----|-------|-------|------------|
|-------|-------------|--------|---------|--------|----|-------|-------|------------|



**GCS Energy Services Ltd.**

**Work Order: 14156**

|     |          |         |                                                      |     |         |          |          |
|-----|----------|---------|------------------------------------------------------|-----|---------|----------|----------|
| 749 | 06/13/23 | PR      | Employee: 3110 Callum Deditch                        | HRS | 0.500   |          |          |
| 932 | 06/23/23 | AP      | Vendor: 10034 Brandt Tractor Ltd. 05 1562877 Line: 1 | LS  | 0.000   | 0.00     | 138.75   |
| 48  | 07/06/23 | EMParts | J75482 Lube Fitting-Grease                           | EA  | 3.000   | 5.21     | 15.62    |
| 54  | 04/03/24 | EMParts | Dyed Diesel Dyed Diesel                              | EA  | 204.410 | 1.28     | 261.42   |
| 70  | 07/10/23 | EMParts | 4634936 Motor-Hydraulic Cooling Fan                  | EA  | 1.000   | 4,359.71 | 4,359.71 |
| 71  | 07/10/23 | EMParts | 5W40 Spectra 5W40                                    | I   | 4.000   | 7.48     | 29.90    |
| 72  | 07/10/23 | EMParts | 60/40 Rad-Cool Antifreeze                            | EA  | 4.000   | 5.94     | 23.77    |
| 73  | 07/10/23 | EMParts | Diesel Fuel Diesel Fuel                              | EA  | 204.400 | 2.00     | 408.80   |
| 74  | 07/10/23 | EMParts | Zinc Free Multoil 5w20 Zink-Free Hydraul             | EA  | 28.000  | 8.49     | 237.69   |
| 120 | 07/11/23 | EMParts | 8943956840 Isolator-Valve Cover                      | EA  | 2.000   | 28.49    | 56.98    |
| 251 | 10/16/23 | EMParts | Zinc Free Multoil 5w20 Zink-Free Hydraulic Oil       | EA  | 200.000 | 7.90     | 1,580.22 |
| 252 | 10/16/23 | EMParts | Dyed Diesel Dyed Diesel                              | EA  | 32.000  | 1.27     | 40.58    |
| 258 | 10/16/23 | EMParts | 75W90 Certop SN 75W90 Gear Lube                      | EA  | 11.000  | 10.27    | 112.94   |
| 279 | 06/14/23 | EMParts | 1111731180 Gasket-Valve Cover                        | EA  | 1.000   | 195.11   | 195.11   |
| 280 | 06/14/23 | EMParts | 4363399 Filter-Hydraulic                             | EA  | 1.000   | 51.08    | 51.08    |
| 281 | 06/14/23 | EMParts | 4630525 Filter-Hydraulic Pilot                       | EA  | 1.000   | 39.42    | 39.42    |
| 282 | 06/14/23 | EMParts | 4632689 Filter-Cab Air(4S00686)                      | EA  | 1.000   | 68.65    | 68.65    |
| 283 | 06/14/23 | EMParts | 4676385 Fuel / Water Separator                       | EA  | 2.000   | 68.22    | 136.43   |
| 284 | 06/14/23 | EMParts | 8981527381 Filter-Fuel                               | EA  | 2.000   | 42.08    | 84.16    |
| 285 | 06/14/23 | EMParts | A810220 Seal-O-Ring                                  | EA  | 1.000   | 23.93    | 23.93    |
| 286 | 06/14/23 | EMParts | AT308575 Filter-Air Primary                          | EA  | 1.000   | 53.01    | 53.01    |
| 287 | 06/14/23 | EMParts | FYA00001490 Filter-Cab Air                           | EA  | 1.000   | 26.00    | 26.00    |
| 288 | 06/14/23 | EMParts | P550596 Filter-Oil                                   | EA  | 2.000   | 35.80    | 71.60    |
| 289 | 06/14/23 | EMParts | YA00083442 Filter-Hydraulic                          | EA  | 1.000   | 230.33   | 230.33   |
| 290 | 06/14/23 | EMParts | TT220747 Filter-Air                                  | EA  | 1.000   | 150.12   | 150.12   |
| 330 | 06/15/23 | EMParts | 1096255403 Seal                                      | EA  | 1.000   | 213.86   | 213.86   |
| 331 | 06/15/23 | EMParts | 8981872580 Gasket                                    | EA  | 1.000   | 199.62   | 199.62   |
| 498 | 06/27/23 | EMParts | A810220 Seal-O-Ring                                  | EA  | -1.000  | 44.83    | -44.83   |

|                     |          |
|---------------------|----------|
| Labour Total        | 0.50     |
| Parts Total         | 8,764.87 |
| Miscellaneous Total | 0.00     |

## Segment: 2 Inspections

*Outsheet inspection*  
*Top up hyd oil, engine oil, coolant level in surge tank.*  
*Bleed cooling system.*  
*Adjust fire ext. bracket, install fire extinguisher and spill kit.*  
*Install clean up bucket, wash bucket and hyd pump compartment.*  
*Scoop up dig bucket inside CUB.*  
*Run unit up to temp, test/check fan speed, in spec now.*  
*Install missing bolts into railings.*  
*Repair monitor wiring and set up screen to display camera views properly.*  
*Top up fuel (54G).*  
*Perform forced regen as DEF was 4/5 full of soot.*  
*Pictures.*  
*Put paddle teeth and retainers in toolbox.*  
 -Paul

| Trans | Actual Date | Source | Details                       | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-------------------------------|--------|-----|-------|-------|------------|
| 232   | 07/06/23    | PR     | Employee: 1575 Paul Nixon     |        | HRS | 6.500 |       |            |
| 747   | 06/12/23    | PR     | Employee: 3110 Callum Deditch |        | HRS | 2.500 |       |            |
| 750   | 06/13/23    | PR     | Employee: 3110 Callum Deditch |        | HRS | 4.000 |       |            |
| 858   | 08/11/23    | PR     | Employee: 3110 Callum Deditch |        | HRS | 2.000 |       |            |



**Work Order: 14156**

|                     |       |
|---------------------|-------|
| Labour Total        | 15.00 |
| Parts Total         | 0.00  |
| Miscellaneous Total | 0.00  |

**Segment: 3 Wash and Clean cab, paint**

| Trans | Actual Date | Source | Details                        | STATUS | UM  | Units  | Price | Total Cost |
|-------|-------------|--------|--------------------------------|--------|-----|--------|-------|------------|
| 228   | 07/04/23    | PR     | Employee: 2623 Brenton Woolman |        | HRS | 1.500  |       |            |
| 231   | 07/05/23    | PR     | Employee: 2623 Brenton Woolman |        | HRS | 5.500  |       |            |
| 748   | 06/12/23    | PR     | Employee: 2623 Brenton Woolman |        | HRS | 1.000  |       |            |
| 751   | 06/13/23    | PR     | Employee: 2623 Brenton Woolman |        | HRS | 9.500  |       |            |
| 752   | 06/14/23    | PR     | Employee: 2623 Brenton Woolman |        | HRS | 9.500  |       |            |
| 753   | 06/15/23    | PR     | Employee: 2623 Brenton Woolman |        | HRS | 10.000 |       |            |
| 754   | 06/16/23    | PR     | Employee: 2623 Brenton Woolman |        | HRS | 1.000  |       |            |

|                     |       |
|---------------------|-------|
| Labour Total        | 38.00 |
| Parts Total         | 0.00  |
| Miscellaneous Total | 0.00  |

**Segment: 4 Repair Leaks**

| Trans | Actual Date | Source | Details                          | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|----------------------------------|--------|-----|-------|-------|------------|
| 229   | 07/04/23    | PR     | Employee: 3109 Cameron Ellsworth |        | HRS | 2.500 |       |            |
| 757   | 06/20/23    | PR     | Employee: 3109 Cameron Ellsworth |        | HRS | 4.000 |       |            |
| 759   | 06/21/23    | PR     | Employee: 3109 Cameron Ellsworth |        | HRS | 3.000 |       |            |
| 761   | 06/22/23    | PR     | Employee: 3109 Cameron Ellsworth |        | HRS | 4.000 |       |            |
| 762   | 06/23/23    | PR     | Employee: 3109 Cameron Ellsworth |        | HRS | 1.000 |       |            |

|                     |       |
|---------------------|-------|
| Labour Total        | 14.50 |
| Parts Total         | 0.00  |
| Miscellaneous Total | 0.00  |

**Segment: 5 4000 Hour Service**

| Trans | Actual Date | Source | Details                          | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|----------------------------------|--------|-----|-------|-------|------------|
| 230   | 07/04/23    | PR     | Employee: 3109 Cameron Ellsworth |        | HRS | 3.500 |       |            |
| 755   | 06/16/23    | PR     | Employee: 3109 Cameron Ellsworth |        | HRS | 4.000 |       |            |
| 756   | 06/19/23    | PR     | Employee: 3109 Cameron Ellsworth |        | HRS | 1.500 |       |            |
| 758   | 06/20/23    | PR     | Employee: 3109 Cameron Ellsworth |        | HRS | 2.000 |       |            |
| 763   | 06/23/23    | PR     | Employee: 3109 Cameron Ellsworth |        | HRS | 1.000 |       |            |



Work Order: 14156

|                     |       |
|---------------------|-------|
| Labour Total        | 12.00 |
| Parts Total         | 0.00  |
| Miscellaneous Total | 0.00  |

Segment: 6 Repair Fan Speed

| Trans | Actual Date | Source | Details                          | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|----------------------------------|--------|-----|-------|-------|------------|
| 760   | 06/21/23    | PR     | Employee: 3109 Cameron Ellsworth |        | HRS | 2.000 |       |            |
| 764   | 06/23/23    | PR     | Employee: 3109 Cameron Ellsworth |        | HRS | 6.500 |       |            |
| 1846  | 06/26/23    | PR     | Employee: 3109 Cameron Ellsworth |        | HRS | 8.000 |       |            |
| 1847  | 06/27/23    | PR     | Employee: 3109 Cameron Ellsworth |        | HRS | 8.500 |       |            |
| 1848  | 06/29/23    | PR     | Employee: 3109 Cameron Ellsworth |        | HRS | 9.500 |       |            |

|                     |       |
|---------------------|-------|
| Labour Total        | 34.50 |
| Parts Total         | 0.00  |
| Miscellaneous Total | 0.00  |

Segment: 7 Shim Bucket Pin

Segment: 8 Adjust tracks and replace leaking rollers

Segment: 9 Repair Heater fan and radar monitor

| Trans | Actual Date | Source | Details                          | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|----------------------------------|--------|-----|-------|-------|------------|
| 1849  | 06/30/23    | PR     | Employee: 3109 Cameron Ellsworth |        | HRS | 4.500 |       |            |

|                     |      |
|---------------------|------|
| Labour Total        | 4.50 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |

|                     |          |
|---------------------|----------|
| Labour Total        | 119.00   |
| Parts Total         | 9,496.34 |
| Miscellaneous Total | 0.00     |

|                                                     |                                                       |                                 |
|-----------------------------------------------------|-------------------------------------------------------|---------------------------------|
| <b>Description:</b> Inspections, Delete and Repairs | Unit went to Hardisty for wash, outsheet and photo's. | <b>Date Started:</b> 2023-08-18 |
| <b>Equipment:</b> E554 Hitachi ZX470LC-5 Excavator  | sent with A-400-122 CUB/A-400-111 DIG Buckets.        |                                 |
| <b>Serial#:</b> HCMJAA70T00030162                   | 5756 hours                                            |                                 |
|                                                     | 6060 next service hours                               |                                 |
|                                                     | GRO#10948/10949/3942/10030                            |                                 |

Segment: 1 Parts



**Work Order: 14269**

| Trans               | Actual Date | Source  | Details                                                                       | STATUS | UM | Units    | Price  | Total Cost |
|---------------------|-------------|---------|-------------------------------------------------------------------------------|--------|----|----------|--------|------------|
| 722                 | 11/09/23    | AP      | Vendor: 10416 Hose Headquarters (Red Deer) Ltd. S7190235.001<br>Line: 1       |        | EA | 1.000    | 26.53  | 26.53      |
| 1899                | 12/15/23    | AP      | Vendor: 33121 Black Sheep Heavy Duty 2549 Line: 1                             |        | LS | 0.000    | 0.00   | 3,365.00   |
| 2241                | 11/27/23    | AP      | Vendor: 10407 Onsite Machining Solutions Ltd. 5129 Line: 1                    |        | LS | 0.000    | 0.00   | 661.94     |
| 65                  | 12/04/23    | EMParts | 2058778 Cover-Seat Base                                                       |        | EA | 1.000    | 17.65  | 17.65      |
| 66                  | 12/04/23    | EMParts | FYA00030883 Cover-Joy Stick L/H                                               |        | EA | 1.000    | 358.81 | 358.81     |
| 145                 | 12/07/23    | EMParts | Zinc Free Multo 5w20 Zink-Free Hydraul                                        |        | EA | 15.000   | 7.20   | 107.99     |
| 211                 | 11/14/23    | EMParts | FYA00044233 Light-Cab                                                         |        | EA | 1.000    | 126.16 | 126.16     |
| 223                 | 11/14/23    | EMParts | 8980797550 Gasket                                                             |        | EA | 1.000    | 12.30  | 12.30      |
| 850                 | 11/21/23    | EMParts | 4662718 Clip                                                                  |        | EA | 1.000    | 1.90   | 1.90       |
|                     |             |         | PO - Open - #1026423 - 10407 disassemble 1 cws cyl, repair seals, install,ass |        | LS | 0.00     | 0.00   | 661.94     |
|                     |             |         | PO - Open - #1026640 - 33121 perform engine improvemnt program                |        | LS | 0.00     | 0.00   | 3,365.00   |
| Labour Total        |             |         |                                                                               |        |    | 0.00     |        |            |
| Parts Total         |             |         |                                                                               |        |    | 8,705.22 |        |            |
| Miscellaneous Total |             |         |                                                                               |        |    | 0.00     |        |            |

**Segment: 2 Inspections**

Checkover and send unit to Hardisty for wash and outsheet.  
 Top up hyd oil (added 15L 5W-20)  
 Replace LH joystick plastic.  
 Replace plastic at front of seat base.  
 Repair and install seat forward/back adjuster.  
 Install buckets-A-400-122, A-400-111.  
 Tighten belly pan bolts.  
 -Paul

| Trans               | Actual Date | Source | Details                        | STATUS | UM  | Units | Price | Total Cost |
|---------------------|-------------|--------|--------------------------------|--------|-----|-------|-------|------------|
| 859                 | 08/14/23    | PR     | Employee: 2623 Brenton Woolman |        | HRS | 5.000 |       |            |
| 860                 | 08/15/23    | PR     | Employee: 2623 Brenton Woolman |        | HRS | 9.500 |       |            |
| 861                 | 08/16/23    | PR     | Employee: 2623 Brenton Woolman |        | HRS | 9.500 |       |            |
| Labour Total        |             |        |                                |        |     | 24.00 |       |            |
| Parts Total         |             |        |                                |        |     | 0.00  |       |            |
| Miscellaneous Total |             |        |                                |        |     | 0.00  |       |            |

**Segment: 3 Wash/clean cab**

**Segment: 4 T/S and Repair Codes**

| Trans | Actual Date | Source | Details                     | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-----------------------------|--------|-----|-------|-------|------------|
| 467   | 11/07/23    | PR     | Employee: 3131 Shawn Rowe   |        | HRS | 3.500 |       |            |
| 1333  | 11/16/23    | PR     | Employee: 3108 Zachary Dean |        | HRS | 4.500 |       |            |
| 2367  | 11/28/23    | PR     | Employee: 3108 Zachary Dean |        | HRS | 1.500 |       |            |



Work Order: 14269

|                     |      |
|---------------------|------|
| Labour Total        | 9.50 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |

Segment: 5 Remove/install thumb cylinder

| Trans | Actual Date | Source | Details                     | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-----------------------------|--------|-----|-------|-------|------------|
| 472   | 11/10/23    | PR     | Employee: 3108 Zachary Dean |        | HRS | 4.000 |       |            |
| 1561  | 10/24/23    | PR     | Employee: 3103 Dallas Wood  |        | HRS | 2.500 |       |            |
| 2368  | 11/29/23    | PR     | Employee: 3103 Dallas Wood  |        | HRS | 2.000 |       |            |

|                     |      |
|---------------------|------|
| Labour Total        | 8.50 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |

Segment: 6 Repair leaks

| Trans | Actual Date | Source | Details                   | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|---------------------------|--------|-----|-------|-------|------------|
| 468   | 11/08/23    | PR     | Employee: 3131 Shawn Rowe |        | HRS | 2.500 |       |            |
| 470   | 11/09/23    | PR     | Employee: 3131 Shawn Rowe |        | HRS | 4.000 |       |            |

|                     |      |
|---------------------|------|
| Labour Total        | 6.50 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |

Segment: 7 Repair panels/latches, top up fluids

| Trans | Actual Date | Source | Details                     | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|-----------------------------|--------|-----|-------|-------|------------|
| 469   | 11/08/23    | PR     | Employee: 3131 Shawn Rowe   |        | HRS | 2.500 |       |            |
| 471   | 11/09/23    | PR     | Employee: 3131 Shawn Rowe   |        | HRS | 1.500 |       |            |
| 1332  | 11/14/23    | PR     | Employee: 3108 Zachary Dean |        | HRS | 3.500 |       |            |

|                     |      |
|---------------------|------|
| Labour Total        | 7.50 |
| Parts Total         | 0.00 |
| Miscellaneous Total | 0.00 |

|                     |          |
|---------------------|----------|
| Labour Total        | 56.00    |
| Parts Total         | 9,436.69 |
| Miscellaneous Total | 0.00     |



**Work Order: 15036**

|                                                    |                |                                 |
|----------------------------------------------------|----------------|---------------------------------|
| <b>Description:</b> Reg Maintenance                | GRO11962/13893 | <b>Date Started:</b> 2024-08-26 |
| <b>Equipment:</b> E554 Hitachi ZX470LC-5 Excavator | 5762 hours     |                                 |
| <b>Serial#:</b> HCMJAA70T00030162                  |                |                                 |

**Segment: 1 parts**

**Segment: 2 Complete In Inspection Sheet**

| Trans | Actual Date | Source | Details                      | STATUS | UM  | Units | Price | Total Cost |
|-------|-------------|--------|------------------------------|--------|-----|-------|-------|------------|
| 1147  | 05/29/25    | PR     | Employee: 3119 Shawn Dittmer |        | HRS | 3.000 |       |            |
| 1311  | 08/23/24    | PR     | Employee: 3119 Shawn Dittmer |        | HRS | 2.500 |       |            |

|                            |                 |
|----------------------------|-----------------|
| Labour Total               | 5.50            |
| Parts Total                | 0.00            |
| Miscellaneous Total        | 0.00            |
| <b>Labour Total</b>        | <b>5.50</b>     |
| <b>Parts Total</b>         | <b>4,758.41</b> |
| <b>Miscellaneous Total</b> | <b>0.00</b>     |

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2. The second part of the document is a list of names and addresses of the members of the committee.

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