

Weekly Site Report

BLACK ROCK WEEKLY REPORT

Weekly PSD Report
EPIROC SA

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Weekly Service Report – Black Rock Mine Operations

| | | | |
|------------------------|----------------------|--------------------------------|----------------------|
| Report type: | Weekly | Submitted to: | Sello Taku and Sipho |
| Week Date: | 01 Augustus 2025 | End Date | 06 Augustus 2025 |
| Reported By: | Philip Moller | | |
| BEV: | | | |
| Service Tech: | Ivan Phiri | Service Tech: | Lukas Serumola |
| Service Tech: | Patricia Mazinyo | Service Tech Assistant: | Patrick Yoko |
| Specialist: | Frikkie van der Walt | | |
| Field Service: | | | |
| Service Tech: | Alpheus Mareke | Service Tech: | Mathews Mosemane |
| CAS Project: | | | |
| Team Leader: | Bradley Nast | Service Tech: | Phineas Sibanda |
| Service Tech: | Julius Manamela | Service Tech: | Joseph Mampa |
| Certiq Project: | | | |
| Team Leader: | Segunda Fernando | Service Tech: | |
| Mobilaris: | | | |
| Team Leader: | Rupert Grobler | | |

Report Summary

General Summary

The purpose of this report is to give an overview of all the Epiroc activities at Blackrock Mine Operations (BRMO).

BEV - Critical Issues Summary

- Buckets of ST14 machines in poor condition.

- **DT 150** – Multiple issues with gears going to neutral. Found door switch not making contact from time to time.
- Looking into mirror damages on MT42B trucks. Looking at the design and placement of the mirror.
- Critical spares list review process started. Waiting on store stock and quantities.
- Discuss the utilisation of 1 Epiroc artisan to oversee and assist with services. Jada to return feedback.
- CAS level 9 trainings to be completed.

CAS L9 Implementation - Critical Issues Summary

- Behind on Project. The team worked overtime this past weekend to try and catch up. FL90, FL82 and FL80 commissioned over the weekend.

Certiq & Mobilaris - Critical Issues Summary

- Machine availability to review the installation and collect evidence for the commissioning documents
- CAS level 9 trainings to be completed.

BEV – MH4.0 Upgrades

- MH4.0 software upgrades project update to be sent for approval.

Passport 360 Compliance

- BEV Technicians: **96%**
- CASL9 (Gloria): **98%**
- CASL9 (Nch2): **97%**
- CAS L9 (Nch3): **97%**
- Certiq & Mobilaris N2: **97%**
- Certiq & Mobilaris Gloria: **98%**
- Epiroc SLA: **84%**

BEV Report

Weekly machine utilization summary:

Friday 01 August 2025:

1. FL 98 –
2. FL 99 –
3. FL 107 – Morning shift: Mechanical breakdown – No feedback. (01H17min)
4. FL 108 –

5. FL 112 -
6. FL 113 - Afternoon shift: Breakdown Mechanical – Top up transmission oil. (3H51min)
Night shift: Electrical breakdown - FL113 BMS error start of shift fixed. (2H25min)
7. DT 146 -
8. DT 147 -
9. DT 149 –
10. DT 150 –
11. DT 162 –
12. DT 163 – Afternoon shift: Breakdown Mechanical – Repaired oil leak. (4H14min)
Afternoon shift: Electrical breakdown – No feedback. (11min)
Night shift: Mechanical down – Repaired oil leak. (51min)
13. DT 171 –

Saturday 02 August 2025:

1. FL 98 – Morning shift: 3rd Party Supplier Fault: Auto Electrical System - 24V: STRATA Breakdown. (57min)

Morning shift: Mechanical down: Don't know what was damaged and what was done to

Repair. **(23H15min)**
2. FL 99 – Morning shift: Electrical down - Aircon leak fixed, however if operator complains again we need to change aircon pump and receiver dryer. **(1D01H37min)**
3. FL 107 –
4. FL 108 –
5. FL 112 -
6. FL 113 -
7. DT 146 -
8. DT 147 -
9. DT 149 –
10. DT 150 –
11. DT 162 –
12. DT 163 –
13. DT 171 –

Sunday 03 August 2025:

1. FL 98 –
2. FL 99 –
3. FL 107 –
4. FL 108 –
5. FL 112 -
6. FL 113 – Morning shift: Mechanical breakdown - Oil leak fixed, just need to refill hydraulic oil. **(1D08H31min)**
7. DT 146 – Morning shift: Electrical breakdown – No feedback. (1H39min)
8. DT 147 -
9. DT 149 –
10. DT 150 –

11. DT 162 –
12. DT 163 – Morning shift: Mechanical breakdown – Replace O-ring on hydraulic hose. **(1D01H16min)**
13. DT 171 –

Monday 04 August 2025:

1. FL 98 –
2. FL 99 – Morning shift: Electrical breakdown – Repair lights wiring. (24min)
3. FL 107 –
4. FL 108 –
5. FL 112 –
6. FL 113 –
7. DT 146 –
8. DT 147 –
9. DT 149 –
10. DT 150 –
11. DT 162 –
12. DT 163 –
13. DT 171 –

Tuesday 05 August 2025:

1. FL 98 – Morning shift: Tyre breakdown – Re-torque wheel nuts. (2H03min)
2. FL 99 –
3. FL 107 –
4. FL 108 – Night shift: Electrical breakdown – Module error, changed blown fuse in the A20 box.
(12H33min)
5. FL 112 –
6. FL 113 –
7. DT 146 –
8. DT 147 – Morning shift: Tyre breakdown – Re-torque wheel nuts. (01H14min)
9. DT 149 – Afternoon shift: Electrical breakdown – Aircon not working. Re-gas system. (8H52min)
10. DT 150 –
11. DT 162 –
12. DT 163 –
13. DT 171 –

Wednesday 06 August 2025:

1. FL 98 –
2. FL 99 –
3. FL 107 – Night shift: Mechanical breakdown – Replaced hydraulic hose. **(13H19min)**
4. FL 108 –
5. FL 112 –
6. FL 113 – Afternoon shift: Electrical breakdown – No feedback. (35min)
7. DT 146 – Morning shift: Electrical breakdown - HVIL fault after batteries was changed. Operators didn't plug the plugs in properly and damage the pin on the cable side and on the battery separately. (16min)

8. DT 147 -
9. DT 149 – Morning shift: Electrical breakdown – Top up aircon gas. (1H03min)
10. DT 150 –
11. DT 162 –
12. DT 163 – Night shift: Mechanical breakdown - DT163 was stuck on 3kmh crawling, only reset the Machine. (14min)
13. DT 171 –

Planned work for the coming week:

- DCDC and PSB campaign plan to be actioned. Busy with new passport 360 5-day access pack.
- HD0062 to be rig scanned for the S2 project.

SERVICES:

| Week: | 11 August 2025 | to | 17 August 2025 | |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-----------|
| 11-Aug-25 | 12-Aug-25 | 13-Aug-25 | 14-Aug-25 | 15-Aug-25 |
| Monday | Tuesday | Wednesday | Thursday | Friday |
| DT0131 - 1000Hrs - 1831579 | DT0171 - 500Hrs - 1831581 | DT0160 - 500Hrs - 1831587 | DT0163 - 250Hrs - 1831599 | |
| N3 CAS 3Monthly Inspection | N3 CAS 3Monthly Inspection | N3 CAS 3Monthly Inspection | N3 CAS 3Monthly Inspection | |
| DT Mech Wk. Insp | N3 MT42B Mech Daily Inspection | DT Mech Wk. Insp | N3 MT42B Mech Daily Inspection | |
| D.T BUCKET/CHASSIS/ARTIC Insp | N3 MT42B Load Box / Chassis /A | D.T BUCKET/CHASSIS/ARTIC Insp | N3 MT42B Load Box / Chassis /A | |
| FL0099 | FL0101 - 250Hrs - 1831566 | FL0108 | FL0082 | |
| N3 CAS 3Monthly Inspection | N3 CAS 3Monthly Inspection | N3 CAS 3Monthly Inspection | N3 CAS 3Monthly Inspection | |
| | ST14 250 Hours Service | | ST14 250 Hours Service | |
| | N3 FL Diesel Auto Electrician | | N3 FL Diesel Auto Electrician | |
| N3 MT42B Mech Daily Inspection | Loader ST14 Mech Wk. Insp | N3 MT42B Mech Daily Inspection | Loader ST14 Mech Wk. Insp | |
| N3 MT42B Load Box / Chassis /A | FEL Ins BCKT/S-BLOCK/ARTIC Wk | N3 MT42B Load Box / Chassis /A | FEL Ins BCKT/S-BLOCK/ARTIC Wk | |

Monday – FL0099

Tuesday – DT0171

Wednesday – FL108

Thursday - DT0163

Battery and Charger Status Report

General summary

ST14 – B4 battery packs

- We currently have 10 x ST14 – B4 battery packs and 5 x ST14 machines operational underground. This is equal to the committed ratio of 1.6 batteries per machine.

MT42 – B5 battery packs

- We currently have 10 x MT42 – B5 battery packs operational underground. This is above the committed ratio of 1.6 batteries per machine.

160 kW Chargers

- Module 4 was found to be the fault on charger 7, charger module needs to be replaced.
- Charger 1 has a faulty fan that need to be replaced.

General

- Damage audits have been completed on battery packs, communication for repairs and battery upkeep was sent to BRMO with the respective quotations to ensure adequate battery upkeep. Meeting between Epiroc and Black Rock to take place to discuss general wear and tear vs damages.
- There are more noted charger stops; this is being investigated with initial indications being worn out charger and CCS battery inlet connectors.

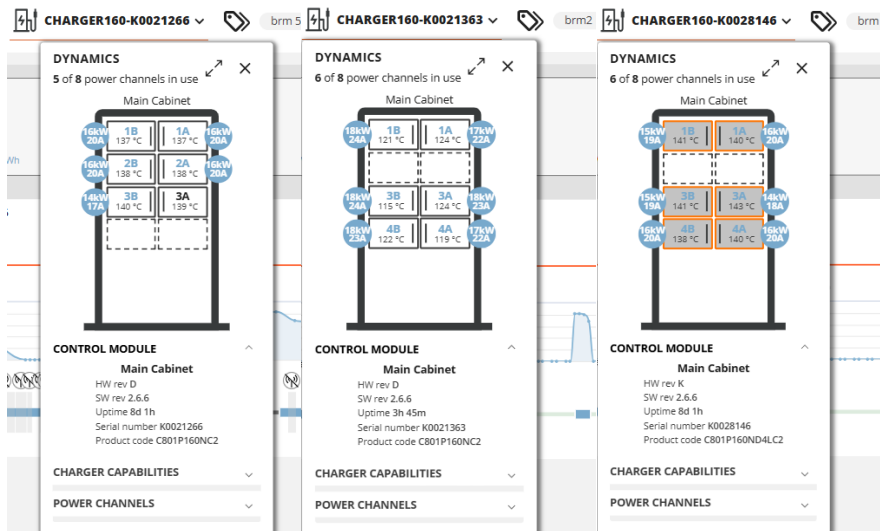


Figure 1: Chargers 2, 5 and 7 are missing 1 module each

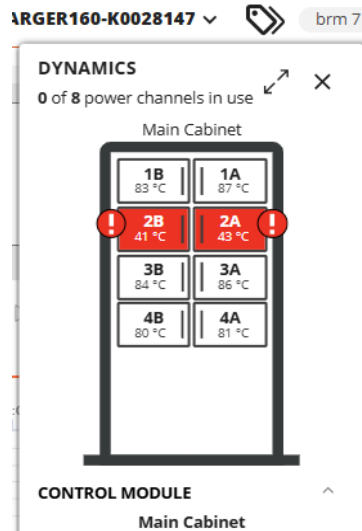


Figure 2: Chargers 1, 8 and 7 have faulty fans that need to be replaced

Table 1: Battery pack availability for week 10 2025

| Battery Type | Battery ID | Status | Comment |
|--------------|------------|-----------|--|
| B4 - ST14 | VPY-00011 | Working | |
| B4 - ST14 | VPY-00031 | Working | |
| B4 - ST14 | VPY-00051 | Working | |
| B4 - ST14 | VPY-00048 | Working | |
| B4 - ST14 | VPY-00049 | Working | |
| B4 - ST14 | VPY-00088 | Working | |
| B4 - ST14 | VPY-00086 | Working | |
| B4 - ST14 | VPY-00076 | Working | |
| B4 - ST14 | VPY-00083 | Working | |
| B4 - ST14 | VPY-00041 | Working | |
| B5 - MT42 | VPX-00016 | Working | |
| B5 - MT42 | VPX-00006 | Breakdown | Battery overheating. Busy with fault finding. (6D) |
| B5 - MT42 | VPX-00023 | Working | |
| B5 - MT42 | VPX-00017 | Working | |
| B5 - MT42 | VPX-00010 | Working | |
| B5 - MT42 | VPX-00050 | Working | |
| B5 - MT42 | VPX-00031 | Working | |
| B5 - MT42 | VPX-00036 | Working | |
| B5 - MT42 | VPX-00028 | Working | |
| B5 - MT42 | VPX-00026 | Working | |
| B5 - MT42 | VPX-00024 | Working | |
| B5 - MT42 | VPX-00048 | Working | |
| B5 - MT42 | VPX-00044 | Surface | On machine: 8997901500 |

FST Report Summary

Field Service on site:

-

CAS Report Summary

| | | | |
|---------------------|-------------|------------------------|--------------------|
| Report Type: | Weekly | Project Leader: | Hennie van Niekerk |
| Start Date: | 01-Aug-2025 | Report By: | Bradley Nast |
| End Date: | 06-Aug-2025 | Contract No: | BPE145D |

Critical Issues

1. Request received to delay L9 switch-on and software standardization until BRMO financial year end conclusion.
2. Team will continue with software standardization in the interim.

| Shaft | Machine ID | Machine Type | Status | Commissioning document | Approval progress (1 - 6) | Comments |
|-------|------------|--------------------|--------------------------------|------------------------|---------------------------|---|
| N2 | FL0063 | Epiroc ST14 | Last connected: 31 Mar. | II On hold | 0 | **Machine scrapped** |
| N2 | FL0066 | Epiroc ST14 | | ☺ Signed & filed | 6 | Completed |
| N2 | FL0086 | Epiroc ST14 | Machine in order | 📄 Routing for approval | 4 | GES to sign |
| N2 | FL0085 | Epiroc ST14 | Last connected: 20 Feb. | II On hold | 0 | Awaiting update from foreman (email sent on 24 Jul) |
| N2 | FL0077 | Epiroc ST14 | Last connected: 14 May. | II On hold | 0 | Awaiting update from foreman (email sent on 24 Jul) |
| N2 | FL0100 | Epiroc ST1030 | | ☺ Signed & filed | 6 | Completed |
| N2 | FL0102 | Epiroc ST14 | | ☺ Signed & filed | 6 | Completed |
| N2 | HD0035 | Epiroc Boomer 282 | Machine not in use | ✗ Not provided | 0 | |
| N2 | HD0039 | Epiroc Boomer 282 | Last connected: 04 Jun. | ✓ Received | 0 | **Machine scrapped** |
| N2 | HD0043 | Epiroc Boomer 282 | Last connected: 15 Apr. | ✓ Received | 0 | Email sent to Rupert on 07 Aug. |
| N2 | HD0046 | Epiroc Boomer 282 | Machine connected - no data | 📄 Routing for approval | 0 | Awaiting update from foreman (email sent on 07 Aug) |
| N2 | HD0053 | Epiroc Boomer 282 | Machine out of Wi-Fi coverage | | 0 | |
| N2 | RT0036 | Epiroc Boltec 235H | Machine in order | 📄 Routing for approval | 5 | Engineer to sign |
| N2 | RT0038 | Epiroc Boltec 235H | Last connected: 09 Jul. | II On hold | 0 | Machine is operational - loses connection |
| N2 | RT0040 | Epiroc Boltec 235H | Machine in order | 📄 Routing for approval | 0 | |
| N2 | DZ0013 | Epiroc Dozer | | ☺ Signed & filed | 6 | Completed |
| N2 | FL0068 | Epiroc ST14 | | ☺ Signed & filed | 6 | Completed |
| N2 | DT0095 | Epiroc MT436LP | | | | |
| N2 | DT0099 | Epiroc MT436LP | | | | |
| N2 | DT0120 | CAT AD30 | | ✗ Not provided | 0 | Machine not available on myEpiroc |
| N2 | DT0121 | CAT AD30 | | ✗ Not provided | 0 | Machine not available on myEpiroc |
| N2 | DT0122 | CAT AD30 | | ✓ Received | 0 | Machine not available on myEpiroc |
| N2 | DT0128 | CAT AD30 | | ✗ Not provided | 0 | Machine not available on myEpiroc |

| Shaft | Machine ID | Machine Type | Status | Commissioning document | Approval progress (1 - 6) | Comments |
|-------|------------|-------------------|-------------------------------|------------------------|---------------------------|--|
| GLR | DT0094 | Epiroc MT436LP | | ✗ Not provided | | **Machine scrapped** |
| GLR | DT0105 | Epiroc MT436LP | | ✗ Not provided | 0 | Awaiting update from foreman (email sent on 24 Jul) |
| GLR | DT0106 | Epiroc MT436LP | | ✗ Not provided | 0 | Awaiting update from foreman (email sent on 24 Jul) |
| GLR | DZ0012 | Epiroc Dozer | Last connected 24 Jun. | II On hold | 0 | Machine is operational - not connected |
| GLR | HD0060 | Epiroc Boomer 282 | | ☺ Signed & filed | 6 | Completed |
| GLR | FL0093 | Epiroc ST14 | | ☺ Signed & filed | 6 | Completed |
| GLR | FL0081 | Epiroc ST14 | | ☺ Signed & filed | 6 | Completed |
| GLR | FL0064 | Epiroc ST14 | | ☺ Signed & filed | 6 | Completed |
| GLR | FL0083 | Epiroc ST14 | Last connected 19 Jun. | ✓ Received | 0 | |
| GLR | RT0045 | Epiroc Boltec 235 | Last connected 23 Jun. | ✓ Received | 0 | |
| GLR | RT0046 | Epiroc Boltec 235 | | ✓ Received | 0 | |
| GLR | DT0153 | CAT AD30 | | ✓ Received | 0 | Not listed on myEpiroc |
| GLR | DT0152 | CAT AD30 | | ✗ Not provided | 0 | Not listed on myEpiroc |
| GLR | DT0154 | CAT AD30 | | ✗ Not provided | 0 | Moved to Nchwaning 3 Not listed on myEpiroc |
| GLR | HD0059 | Epiroc Boomer 282 | | ✓ Received | 0 | Not listed on myEpiroc |
| GLR | RT0027 | Epiroc Boltec 235 | Last connected 24 Jun. | ✗ Not provided | 0 | |

Progress Update

1. All machine installations/up at NCH2 have been completed.
2. Team aims to upgrade software on various machines to ensure conformity etc, to be planned.
3. Status updates etc. to be distributed in due course.

Certiq & Mobilaris Report Summary

General summary

NCH 2 and Gloria are in the project phase. Installations are complete and review and commissioning in progress. NCH3 is on a support contract.

NCH2:

From the 22 machines:

- 9 Machines, documentations have been sent for signatures,
- 5 machines are in order the project team is currently preparing the commissioning document,
- 8 machines are under investigation

Gloria:

From the 13 machines:

- 4 machines are commissioned
- 6 machines, commissioning documents are sent for signatures
- 1 Machine the engine hours are on the portal are not corresponding with the actual machine hours
- 2 machines are exempted from the project do to the ECU

NCH3:

1. Mobilaris

- a. Primary machines 52.
- b. Primary machines reporting on Mobilaris is 43
- c. Total compliance 82%

2. Certiq

- a. Primary machines 52
- b. Primary machines with kits installed 38
- c. Total number of machines reporting 29
- d. Total compliance 76%

3. Issue log and resolutions

| Issues | resolutions |
|--------------------------------------|---|
| DT0154 machine is online but no data | Change the machine name from the DT0154 to the serial number on the MCG |
| HD0050 & HD0051 CCI faulty | Raised ACIGN before requesting new part |

| | |
|--|-----------------------------------|
| HD0062, HD0054 & HD0055 incorrect RCS software on the machine. | Replace software with correct one |
|--|-----------------------------------|

| | |
|---|---------------|
| machine is healthy data on the HAPI but nothing on the portal | ACIGN raised. |
|---|---------------|

| | |
|---|--------------------------------|
| HD0058, HD0058, RT0044 CAN Termination and Address Plug | Quotation submitted for order. |
|---|--------------------------------|
