Weekly Site Report

BLACK ROCK WEEKLY REPORT



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Weekly Service Report – Black Rock Mine Operations

| Report type: | Weekly | Submitted to: | Sello Taku and Sipho | |
|-----------------|----------------------|-------------------------|----------------------|--|
| Week Date: | 06 Augustus 2025 | End Date | 13 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 Fernado | 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

All fleet in NCH3 is currently operating on CAS level 9, except for DT109. The
machine has issues with gears and only engages 1st gear. Currently busy with
fault finding.

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:

Wednesday 06 August 2025:

- 1. FL 98 -
- 2. FL 99 -
- 3. FL 107 Night shift: Mechanical breakdown Replaced hydraulic hose. (1D12H10min)
- 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 -

Thursday 07 August 2025:

- FL 98 Morning shift: Mechanical breakdown FL98 was booked since yesterday with no feedback.
 Boisy was busy with it today and left communication to next shift. It show overspending issue. Still standing. (18H38min)
- 2. FL 99 Morning shift: Tyre breakdown Re-torque wheel nuts. (20min)
- 3 FI 107 -
- 4. FL 108 Afternoon shift: Mechanical breakdown Power train, Gears. No feedback on what was rectified. (2H42min)
- 5. FL 112 -
- 6. FL 113 Morning shift: Electrical breakdown Wrong booking, it was standing with a flat battery. (48min)

Afternoon shift: Electrical breakdown – No feedback. (4H37min)

- 7. DT 146 Morning shift: Mechanical breakdown Re-torque wheel nuts. (12min)
- 8. DT 147 Afternoon shift: Electrical breakdown No feedback. (4H14min)
- 9. DT 149 Afternoon shift: 3rd party supplier fault Strata (1H04min)
- 10. DT 150 Morning shift: Mechanical down operator complains about cab loose. It seems that cab rubbers need to be checked/ changed. (46min)
- 11. DT 162 -
- 12. DT 163 -
- 13. DT 171 Morning shift: Mechanical breakdown No feedback. (1H32min)

Friday 08 August 2025:

 FL 98 - Continuous Breakdown: Inverter fault - The U810 was not taking ID runs so it was causing the motor to fail on overspeed and replaced the Transmission Suction Hose.

(5D04H49min)

- 2. FL 99 -
- 3. FL 107 -
- 4. FL 108 -
- 5. FL 112 -
- 6. FL 113 -
- 7. DT 146 Afternoon shift: 3rd party supplier fault Strata. (9min)
- 8. DT 147 -
- 9. DT 149 -
- 10. DT 150 Night shift: Mechanical breakdown No feedback. (33min)
- 11. DT 162 -
- 12. DT 163 -



13. DT 171 -

Saturday 09 August 2025:

- 1. FL 98 -
- 2. FL 99 –
- 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 10 August 2025:

- 1. FL 98 -
- 2. FL 99 –
- 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 -

Monday 11 August 2025:

- 1. FL 98 –
- 2. FL 99 -
- 3. FL 107 Night shift: Mechanical breakdown Hydraulic oil top up. (22min)
- 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 Night shift: Mechanical breakdown Change hydraulic hose at hoist cylinder. Couldn't Complete the job due to transport limitations. (1D16min)
- 13. DT 171 -

Tuesday 12 August 2025:

- 1. FL 98 -
- 2. FL 99 Morning shift: Damages Replaced fire extinguisher bracket. (3H16min)
- 3. FL 107 Morning shift: Mechanical breakdown Adjust RCS parameters. (53min)
- 4. FL 108 Morning shift: Electrical breakdown Plug back wiper plug and clean windows. (3H42min)
- 5. FL 112 -
- 6. FL 113 Afternoon shift: Electrical breakdown Booked with low transmission clutch pressure, Calibrated transmission. (55min)
- 7. DT 146 -
- 8. DT 147 Night shift: Tyre breakdown Repaired flat tyre. (23H37min)
- 9. DT 149 Afternoon shift: 3rd party supplier fault. Strata (7H02min)
- 10. DT 150 Morning shift: Electrical breakdown No feedback. (2H43min)
- 11. DT 162 Morning shift: 3rd party supplier fault strata. (8H15min)
- 12. DT 163 –
- 13. DT 171 -

Wednesday 13 August 2025:

- 1. FL 98 Night shift: Electrical breakdown. No transport to attend breakdown. (11H24min)
- 2. FL 99 -
- 3. FL 107 -
- 4. FL 108 -
- 5. FL 112 -
- 6. FL 113 -
- 7. DT 146 Morning shift: Mechanical breakdown No feedback. (19min) Afternoon shift: Electrical breakdown No feedback. (47min)
- 8. DT 147 -
- 9. DT 149 Morning shift: 3rd party supplier fault strata. **(9H12min)**
- 10. DT 150 –
- **11.** DT 162 Morning shift: 3rd party supplier fault strata. (57min)
- 12. DT 163 Morning shift: 3rd party supplier fault strata. (3H)
- 13. DT 171 –

Planned work for the coming week:



- Onboarding of artisans to assist with the DC/DC campaign.
- HD0062 to be rig scanned for the S2 project Tuesday 19 August.

SERVICES:

| Maintenance Schedule Aug 2025 | | | | |
|-------------------------------|-----------|-----------|-----------|-----------|
| Monday | Tuesday | Wednesday | Thursday | Friday |
| 18-Aug-25 | 19-Aug-25 | 20-Aug-25 | 21-Aug-25 | 22-Aug-25 |
| DT0118 | DT0162 | DT0146 | DT0119 | DT0145 |

Battery and Charger Status Report

General summary

ST14 - B4 battery packs

• We currently have 10 x ST14 – B4 battery packs and 6 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 12 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.



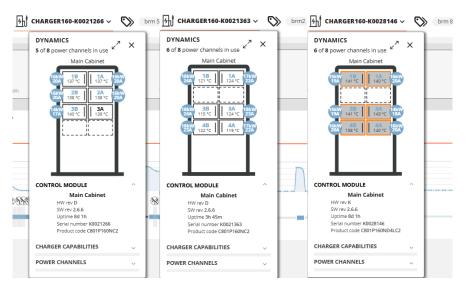


Figure 1: Chargers 2, 5 and 7 are missing 1 module each

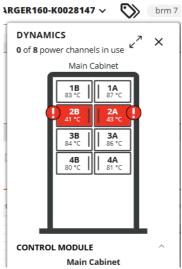


Figure 2: Chargers 1, 8 and 7 have faulty fans that need to be replaced

Table 1: Battery pack availability for week 10 2025

| Battery Type | Battery ID | Status | Comment |
|---------------------|------------|-----------|------------------------------------|
| B4 - ST14 | VPY-00011 | Working | |
| B4 - ST14 | VPY-00031 | Breakdown | TMS fault busy with fault finding. |
| 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 going to be replaced by VPX-00015 |
| 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:WeeklyProject Leader:Hennie van NiekerkStart Date:06-Aug-2025Report By:Bradley NastEnd Date:13-Aug-2025Contract 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.

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. |
| | |