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:	04 September 2025	End Date	11 September 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. Audit done, waiting on a report.
- Critical spares list review process started. Waiting on response from BR for a meeting date.



- BEV technicians were blocked by Passport 360 from the 5th of September until the 10th of September. Patricia was unblocked on the 9th when contingent workers discovered she and I were wrongly blocked. Other technicians had to do a transfer medical because they were onboarded on the wrong contract number.
- Lukas booked off sick from the 8th of September to the 12th of September.
- 1 B4 and 1 B5 battery locked out due to fire suppression canisters empty. We need to send Patrick for training to replace them. Actioned by Kishore.
- 2 x B4 batteries and 1 x B5 battery on breakdown.

CAS L9 Implementation - Critical Issues Summary

• All fleet in NCH3 is currently operating on CAS level 9.

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% - Contract stopped. Pack to be archived

BEV Report

Weekly machine utilization summary:

Thursday 04 September 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 Morning shift: Breakdown mechanical Reported with overheating at the end of the shift. Afternoon shift doesn't have transport to attend breakdowns. (7H58min)
- 9. DT 149 -
- 10. DT 150 -
- 11. DT 162 -
- 12. DT 163 Afternoon shift: 3rd Party Supplier Fault: Auto Electrical System 24v: STRATA Breakdown. (18H)
- 13. DT 171 -

Friday 05 September 2025:

- 1. FL 98 -
- 2. FL 99 -
- 3. FL 107 -
- 4. FL 108 -
- 5. FL 112 Morning shift: Breakdown Boilermaker Corner was supposed to be welded on morning shift, didn't check if it was done. (34min)
- 6. FL 113 -
- 7. DT 146 -
- 8. DT 147 -
- 9. DT 149 Afternoon shift: Breakdown Mechanical: Hydraulic System. No feedback. (2H06min)
- 10. DT 150 -
- 11. DT 162 -
- 12. DT 163 Afternoon shift: 3rd Party Supplier Fault: Auto Electrical System 24v: STRATA Breakdown. (2H05min)
- 13. DT 171 -

Saturday 06 September 2025:

- 1. FL 98 -
- 2. FL 99 -
- 3. FL 107 -
- 4. FL 108 Morning shift: Breakdown Electrical No feedback. (1H49min)
- 5. FL 112 -
- 6. FL 113 Morning shift: Breakdown Auto Electrical: Auto Electrical System 24v. No feedback. (37min)
- 7. DT 146 -
- 8. DT 147 -
- 9. DT 149 Morning shift: Breakdown Electrical Reported with cut off end of shift. No feedback on what was done. (1D45min)
- 10. DT 150 -
- 11. DT 162 -
- 12. DT 163 -
- 13. DT 171 Morning shift: Breakdown Electrical Rear traction motor overheating. Marco recovered the machine to the workshop; operators did not use the machine today. (2D01H21min)

Sunday 07 September 2025:

1. FL 98 -



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    FL 99 -
    FL 107 -
    FL 108 -
    FL 112 -
    FL 113 -
    DT 146 -
    DT 147 -
    DT 150 - Morning shift: Breakdown mechanical - Replaced cab rubbers. (3D22H57min)
    DT 162 -
    DT 163 -
    DT 171 -
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Monday 08 September 2025:

- FL 98 Morning shift: Breakdown Electrical: Auto Electrical System 24v: Traveling Lights Repaired light wiring. (3H40min)
 - Morning shift: 3rd Party Supplier Fault: Auto Electrical System 24v: STRATA Breakdown. (13H05min)
- 2. FL 99 -
- 3. FL 107 -
- 4. FL 108 Afternoon shift: Breakdown Electrical Door lock on battery fixed. (16H59min)
- 5. FL 112 Morning shift: Breakdown Boilermaker At boilers for half arrows. (1D4H27min)
- 6. FL 113 -
- 7. DT 146 Morning shift: Breakdown Electrical: Auto Electrical System 800v: Inverters Units. No feedback on what was done. (45min)
- 8. DT 147 -
- 9. DT 149 -
- 10. DT 150 -
- 11. DT 162 Night shift: Breakdown Electrical: Auto Electrical System 24v: Traveling Lights Light switch is changed. (8H07min)
- 12. DT 163 -
- 13. DT 171 Afternoon shift: Breakdown Electrical was booked with traction 2 overheat(289°C). I disconnected temp cable from sensor 1 to sensor 2 of the traction motor then the fault remains disconnected n connect back the cable on the inverter then machine connects fine and worked the whole shift. I suspect loose connection on temp cable. (1H37min)

Tuesday 09 September 2025:

- 1. FL 98 -
- 2. FL 99 -
- 3. FL 107 -
- 4. FL 108 -
- 5. FL 112 -
- 6. FL 113 Morning shift: Breakdown Electrical: Auto Electrical System 800v: 800v Battery. No feedback on what was done to repair. (29min))
- 7. DT 146 -
- 8. DT 147 -
- 9. DT 149 -



- 10. DT 150 -
- 11. DT 162 -
- 12. DT 163 -
- 13. DT 171 Morning shift: Breakdown Electrical was booked with traction 2 overheat(289°C). I disconnected temp cable from sensor 1 to sensor 2 of the traction motor then the fault remains disconnected n connect back the cable on the inverter then machine connects fine and worked the whole shift. I suspect loose connection on temp cable. (6H37min)

Morning shift: Breakdown Electrical: Auto Electrical System - 800v: 800v Battery. - No feedback on what was done to repair. (1H40min)

Afternoon shift: 3rd Party Supplier Fault: Auto Electrical System - 24v: STRATA Breakdown. (49min)

Wednesday 10 September 2025:

- 1. FL 98 -
- 2. FL 99 Night shift: Breakdown Mechanical No feedback on what was done to repair. (4H22min)
- 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 –

Thursday 11 September 2025:

- 14. FL 98 -
- 15. FL 99 Morning shift: Morning shift: Breakdown Electrical: BMS error No feedback. (3H29min)
- 16. FL 107 -
- 17. FL 108 -
- 18. FL 112 -
- 19. FL 113 -
- 20. DT 146 -
- 21. DT 147 -
- 22. DT 149 -
- 23. DT 150 Morning shift: Breakdown electrical Cooler fans not working. Going to replace them. (20H16min) Ongoing breakdown
- 24. DT 162 -
- 25. DT 163 -
- 26. DT 171 -

Planned work for the coming week:



Onboarding of artisans to assist with the DC/DC campaign.

SERVICES:

Maintenance Schedule Sept 2025				
Monday	Tuesday	Wednesday	Thursday	Friday
15-Sep-25	16-Sep-25	17-Sep-25	18-Sep-25	19-Sep-25
DT0161	DT0162	DT0146	DT0118	
FL0082	DZ0011	GD0011		

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

- Charger 4 Module 1 is removed. Module is faulty and needs to be replace.
- Charger 5 Module 4 is removed. Module is faulty and needs to be replace.
- Charger 7 one Module is switch off. It trips mini sub braker when it is switch on.
- Charger 8 one Module is switch off. It trips mini sub braker when it is switch on.
- Post 3,6 and 7 CCS connector cables 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.
- There are more noted charger stops; this is being investigated with initial indications being worn out charger and CCS battery inlet connectors. DCDC campaign to kick off once technicians are onboarded.
- VPX-00017 and VPY-00048 fire suppression canister pressure is low and needs to be replaced.



Table 1: Battery pack availability for week 2025

Battery Type	Battery ID	Status	Comment
B4 - ST14	VPY-00011	Working	
B4 - ST14	VPY-00031	Breakdown	TMS will be replaced by a new one. Waiting TMS. TMS on surface.
B4 - ST14	VPY-00051	Working	
B4 - ST14	VPY-00048	Breakdown	Fire suppression canister.
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-00015	Working	
B5 - MT42	VPX-00023	Working	
B5 - MT42	VPX-00017	Breakdown	Fire suppression canister.
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:

- RT0062 to be commissioned at NCH2.





CAS Report Summary

Report Type: Weekly Project Leader: Hennie van Niekerk

Start Date:06-Aug-2025Report By:Bradley NastEnd Date:13-Aug-2025Contract No:BPE145D

Critical Issues

1. BEV machines software is still not upgraded yet live on CAS L9.

2. Team will continue with software update and commissioning in NCH2.

Progress Update

- 1. All diesel TMMs in NCH3 software is upgrade and commissioned on CAS L9.
- 2. BEV machines are all on CAS L9 with old software and the team is currently in NCH2.
- 3. FL66,68 & 87 are commissioned and live in CAS L9 in NCH2.

Certiq & Mobilaris Report Summary

General summary

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

NCH2:

25 machines scoped for the smart enablement project:

- 3 Machines are scrapped
- 4 Machines are routing for signature by the Black Rock project team,
- 6 Machines are complete, and Commissioning documents are signed.
- 2 machines work in a section with no Wi-Fi. Can't test and commission. Issue raised with Wayne
- 1 Machine not in use. Reason not clear.
- 10 machines are under investigations.

Gloria:

13 machines scoped for the smart enablement project:

- 3 machines completed and commissioned.
- 8 machines under investigations.
- 2 machines, ECU not giving out date. It was report to Black Rock. Replacement is expected.

NCH3:

1. Support contract expired.

Support contract to be reviewed before S2 optimisation project kicks off.