

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:	18 October 2025	End Date	24 October 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

- DT162 – Breakdown – Rear traction motor and Dropbox failure. New repaired motor installed but temp sensors inside motor shows open line. Need to replace motor again. There is a new motor in store stock. Epiroc to organise extra artisans to assist. **(5D1H15min)**
- DT171 – Ongoing breakdown. A-frame bearing damaged, need to be replaced. **(5D23H15min)**
- Continuing with audit on battery disconnects and compatibility.

CAS L9 Implementation - Critical Issues Summary

- All fleet except BEV machines 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: **97%**
- CASL9 (Gloria): **100%**
- CASL9 (Nch2): **98%**
- CAS L9 (Nch3): **98%**
- CertiQ & Mobilaris N2: **95%**
- CertiQ & Mobilaris Gloria: **91% - John needs to offboard.**

BEV Report

Weekly machine utilization summary:

Saturday 18 October 2025:

1. FL 98 -
2. FL 99 -
3. FL 107 -
4. FL 108 - Morning shift: Electrical breakdown. No feedback on what was done. (2H28min)
5. FL 112 - Morning shift: 3rd party supplier fault – Strata. (2H57min)
6. FL 113 – Night shift: Mechanical breakdown – Hydraulic oil. No feedback on what was done. **(6H35min)**
7. DT 146 -
8. DT 147 -
9. DT 149 -
10. DT 150 -
11. DT 162 -
12. DT 163 -

13. DT 171 –

Sunday 19 October 2025:

1. FL 98 -
2. FL 99 -
3. FL 107 -
4. FL 108 -
5. FL 112 - Morning shift: Breakdown tyre bay – At tyre bay for tire pressure inspection. (27min)
6. FL 113 – Morning shift: Breakdown tyre bay – At tyre bay for tire pressure inspection. (23min)
7. DT 146 -
8. DT 147 -
9. DT 149 -
10. DT 150 -
11. DT 162 -
12. DT 163 -
13. DT 171 –

Monday 20 October 2025:

1. FL 98 -
2. FL 99 -
3. FL 107 -
4. FL 108 - Morning shift: Breakdown boilermaker – Replaced half arrows. **(1D06H02min)**
5. FL 112 -
6. FL 113 –
7. DT 146 -
8. DT 147 - Morning shift: Mechanical breakdown – Had a loose connection on the red stop lamp. Repaired and tested. (1H09min)
9. DT 149 -
10. DT 150 -
11. DT 162 -
12. DT 163 -
13. DT 171 – Ongoing breakdown: Standing at parking bay with A-frame bearing damage. **(1D1H15min)**

Tuesday 21 October 2025:

1. FL 98 -
2. FL 99 -
3. FL 107 -
4. FL 108 -
5. FL 112 - Night shift: 3rd party supplier fault – Strata. **(3H47min)**
6. FL 113 –
7. DT 146 -
8. DT 147 -
9. DT 149 -
10. DT 150 -

11. DT 162 - Afternoon shift: Breakdown tyre bay – Need to go to tyre bay to re-torque after 2 loads. (1H56min)
12. DT 163 -
13. DT 171 – Morning shift: Mechanical breakdown – A frame bearing damaged, need to replace. **(2D0H17min)**
Ongoing breakdown: Standing at parking bay with A-frame bearing damage. **(2D1H15min)**

Wednesday 22 October 2025:

1. FL 98 -
2. FL 99 - Morning shift: Breakdown mechanical – Changed transmission mounting rubbers. (2H50min)
3. FL 107 - Night shift: Breakdown Electrical 800V battery – No feedback. (1H56min)
4. FL 108 -
5. FL 112 - Morning shift: Mechanical breakdown – Changed transmission mounting rubbers. (2H03min)
Afternoon shift: 3rd party supplier fault – Strata. (36min)
Afternoon shift: 3rd party supplier fault – Strata. **(4H49min)**
6. FL 113 – Night shift: Electrical breakdown – No feedback. (2H04min)
7. DT 146 -
8. DT 147 -
9. DT 149 - Afternoon shift: Electrical breakdown – No feedback. (1H54min)
10. DT 150 -
11. DT 162 - Ongoing breakdown: New motor that was installed shows temp high. Motor faulty. Need to install new motor. **(3D23H15min)**
12. DT 163 -
13. DT 171 – Morning shift: 3rd party supplier fault – Strata. (21min)
Ongoing breakdown: Standing at parking bay with A-frame bearing damage. **(3D1H15min)**

Thursday 23 October 2025:

1. FL 98 -
2. FL 99 - Morning shift: Mechanical breakdown – Found 1 cooler fan completely loose on inspection. Fixed. (1H04min)
3. FL 107 -
4. FL 108 - Night shift: Mechanical breakdown – Had multiple faults with battery VPY00011, changed battery with VPY00083 and repaired loose connection on wake-up relay base. **(3H12min)**
5. FL 112 - Afternoon shift: 3rd party supplier fault – Strata. **(9H29min)**
6. FL 113 –
7. DT 146 - Morning shift: Mechanical breakdown – No feedback. (43min)
8. DT 147 -
9. DT 149 - Night shift: Mechanical breakdown – Red stop lamp. No feedback. **(06H30min)**
10. DT 150 -
11. DT 162 - Ongoing breakdown: New motor that was installed shows temp high. Motor faulty. Need to install new motor. **(4D23H15min)**
12. DT 163 -
13. DT 171 –Ongoing breakdown: Standing at parking bay with A-frame bearing damage. **(4D1H15min)**

Friday 24 October 2025:

1. FL 98 -
2. FL 99 -
3. FL 107 -
4. FL 108 -
5. FL 112 - Morning shift: 3rd party supplier fault – Strata. (2H57min)
6. FL 113 –
7. DT 146 -
8. DT 147 - Afternoon shift: Electrical breakdown – No feedback. (33min)
9. DT 149 -
10. DT 150 -
11. DT 162 – Ongoing breakdown: New motor that was installed shows temp high. Motor faulty. Need to install new motor. **(5D23H15min)**
12. DT 163 -
13. DT 171 – Ongoing breakdown: Standing at parking bay with A-frame bearing damage. **(5D1H15min)**

Planned work for the coming week:

- Battery technicians doing onboarding to start DC/DC campaign on batteries.
- Ongoing S2 audits. (HD49, HD50, HD51) Last 3 machines to sort out connectivity. All 3 of them is on service this week.
- Doing audit on batteries to see which batteries are not working on what machines and fault finding the issue to remedy this.

SERVICES:

Maintenance Schedule Oct 2025				
Monday	Tuesday	Wednesday	Thursday	Friday
27-Oct-25	28-Oct-25	29-Oct-25	30-Oct-25	31-Oct-25
DT0145	DT0171	DT0163	DT0118	
FL0107	FL0101	FL0056	FL0103	

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 7 one Module is switch off. It trips mini sub braker when it is switch on. Charging at 75% capacity of post.
- Charger 8 one Module is switch off. It trips mini sub braker when it is switch on. Charging at 75% capacity of post.
- Post 3,6 and 7 CCS connector cables need to be replaced. New 300A cables was order and received. Need to order upgraded spring set. Piet did order upgrade kit. Waiting parts.

General

- 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.
- VPY00088 – Spare parts at BR, need to go down to repair battery.

Table 1: Battery pack availability for week 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	Breakdown	Subpack/VCB connector/VCCU
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	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
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Battery overheat summary:

- 21/10/2025: VPX-00048 was overheating 38Deg (Did self-test and after it cools down)

FST Report Summary

Field Service on site:

- RT0062 – Fix issues identified with delivery.
- DT162 – Assist with traction motor installation. (Breakdown)

CAS Report Summary

Report Type:	Weekly	Project Leader:	Hennie van Niekerk
Start Date:	18-Oct-2025	Report By:	Bradley Nast
End Date:	24-Oct-2025	Contract No:	BPE145D

Critical Issues

1. BEV machines software is still not upgraded yet live on CAS L9.
2. The team is to move to Gloria for software update and commissioning.

Progress Update

1. All diesel TMMs in NCH3 software is upgrade and commissioned on CAS L9.
2. All TMMs in NCH2 are Updated and live on L9 excluding FL92(On Breakdown)
3. All ST14 in Gloria need a software update.

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
- 2 Machines' commissioning document sent for signature by the Black Rock project team; those are currently not communicating.
- 12 Machines are complete, and Commissioning documents are signed.
- 1 machine work in a section with no Wi-Fi. Can't test and commission. Issue raised with Wayne
- 1 Machine not in use. Mine manager reserved future projects.
- 7 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.

Some machines still having trouble connecting to CERTIQ after software was installed.