

# Weekly Site Report

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BLACK ROCK WEEKLY REPORT

Weekly PSD Report  
EPIROC SA

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## Weekly Service Report – Black Rock Mine Operations

<b>Report type:</b>	Weekly	<b>Submitted to:</b>	Sello Taku and Siphosile
<b>Week Date:</b>	08 November 2025	<b>End Date</b>	14 November 2025
<b>Reported By:</b>	Philip Moller		
<b>BEV:</b>			
<b>Service Tech:</b>	Ivan Phiri	<b>Service Tech:</b>	Lukas Serumola
<b>Service Tech:</b>	Patricia Mazinyo	<b>Service Tech Assistant:</b>	Patrick Yoko
<b>Specialist:</b>	Frikkie van der Walt		
<b>Field Service:</b>			
<b>Service Tech:</b>	Alpheus Mareke	<b>Service Tech:</b>	Mathews Mosemane
<b>CAS Project:</b>			
<b>Team Leader:</b>	Bradley Nast	<b>Service Tech:</b>	Phineas Sibanda
<b>Service Tech:</b>	Julius Manamela	<b>Service Tech:</b>	Joseph Mampa
<b>Certiq Project:</b>			
<b>Team Leader:</b>	Segunda Fernando	<b>Service Tech:</b>	
<b>Mobilaris:</b>			
<b>Team Leader:</b>	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

- DT171 – Ongoing breakdown. A-frame bearing damaged, bearing was replaced. With the removal and installation of the auxiliary motor oil and water entered some of the plugs and caused a wire to

get damaged. Seeing insulation faults on machine. Boisy and Lukas from Epiroc to go on morning shift and assist to get machine back to production.

- Continuing with audit on battery disconnects and compatibility. Photo report on connector conditions carried out and will share once done.
- DT147 cab rubber mountings were replaced with wrong mountings. Need to change them again.
- VPY00011 and VPY00088 on breakdown.
- VPX00016 on breakdown. Need a new sub pack.
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### CAS L9 Implementation - Critical Issues Summary

- All fleet except BEV machines in NCH3 is currently operating on CAS level 9.

### Certiq & Mobicaris - Critical Issues Summary

- Machine availability to review the installation and collect evidence for the commissioning documents

### BEV – MH4.0 Upgrades

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

### Passport 360 Compliance

- |                              |                                      |
|------------------------------|--------------------------------------|
| • BEV Technicians:           | <b>96%</b>                           |
| • CASL9 (Gloria):            | <b>100%</b>                          |
| • CASL9 (Nch2):              | <b>98%</b>                           |
| • CAS L9 (Nch3):             | <b>98%</b>                           |
| • Certiq & Mobicaris N2:     | <b>92%</b>                           |
| • Certiq & Mobicaris Gloria: | <b>83% - John needs to offboard.</b> |

## BEV Report

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### Weekly machine utilization summary:

#### Saturday 08 November 2025:

1. FL 98 - Morning shift: Mechanical breakdown – Oil leak. Replaced a hydraulic hose. (2D4H01min)
2. FL 99 -
3. FL 107 - Morning shift: 3<sup>rd</sup> party supplier fault – Strata. (1H47min)
4. FL 108 -
5. FL 112 -
6. FL 113 –
7. DT 146 - Morning shift: Mechanical breakdown – No feedback on what was done to repair. (52min)  
Morning shift: Mechanical breakdown – No feedback on what was done to repair.  
(3H32min)
8. DT 147 -
9. DT 149 -

10. DT 150 -
11. DT 162 -
12. DT 163 -
13. DT 171 -

*Sunday 09 November 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 - Morning shift: 3<sup>rd</sup> party supplier fault – Strata. (1H)
10. DT 150 -
11. DT 162 -
12. DT 163 -
13. DT 171 -

*Monday 10 November 2025:*

1. FL 98 -
2. FL 99 -
3. FL 107 -
4. FL 108 - Morning shift: Tyre Bay Breakdown – Change tyres. (3H46min)
5. FL 112 -
6. FL 113 -
7. DT 146 -
8. DT 147 - Morning shift: Mechanical breakdown – Suspension, some shifts use it, so it was decided to remove it from breakdown. (4H35min)  
Afternoon shift: Mechanical breakdown – Need to charge accumulators. (5H20min)
9. DT 149 - Afternoon shift: Electrical breakdown – Changed wiper switch. (14H39min)
10. DT 150 -
11. DT 162 -
12. DT 163 -
13. DT 171 -

*Tuesday 11 November 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 - Afternoon shift: Mechanical breakdown – Charged accumulators. (49min)
9. DT 149 -
10. DT 150 -
11. DT 162 -
12. DT 163 -
13. DT 171 – Afternoon shift: Mechanical breakdown – Top up coolant. (2H16min)

Afternoon shift: ONGOING BREAKDOWN – After start-up of machine there were inverter errors present. Found one cable that was damaged and a couple of plugs not inserted correctly.

Boisy and Lukas from Epiroc over on dayshift to assist the BRMO team to get the machine back to production. (1D13H38min)

### *Wednesday 12 November 2025:*

1. FL 98 -
2. FL 99 -
3. FL 107 - Morning shift: Mechanical breakdown – Noticed an oil leak on inspections and repaired. (2H42min)
4. FL 108 -
5. FL 112 -
6. FL 113 –
7. DT 146 -
8. DT 147 -
9. DT 149 - Morning shift: Auto electrical breakdown 24V – No feedback. (8min)  
Afternoon shift: 3<sup>rd</sup> party supplier fault – Strata. (7H24min)
10. DT 150 -
11. DT 162 -
12. DT 163 - Afternoon shift: Electrical breakdown 800V – No feedback on what was done to repair. (1H19min)
13. DT 171 -

### *Thursday 13 November 2025:*

1. FL 98 - Night shift: Electrical breakdown – Invertor error, Recovered machine to workshop. (4H31min)
2. FL 99 - Morning shift: 3<sup>rd</sup> party supplier fault – Strata. (9H27min)
3. FL 107 -
4. FL 108 - Morning shift: Auto electrical breakdown – No feedback. (56min)
5. FL 112 -
6. FL 113 –
7. DT 146 - Night shift: Electrical breakdown – Changed the traction motor cable and changed the sensor temperature cable. (6H23min)
8. DT 147 - Morning shift: Auto electrical breakdown – No feedback. (14min)  
Afternoon shift: Mechanical breakdown – Need to replace cab rubbers with the correct ones. (14H43min)
9. DT 149 - Morning shift: 3<sup>rd</sup> party supplier fault – Strata. (8H43min)
10. DT 150 - Night shift: Electrical breakdown 800V – No feedback on what was done to repair. (6H47min)
11. DT 162 -
12. DT 163 -
13. DT 171 –

*Friday 14 November 2025:*

1. FL 98 -
2. FL 99 -
3. FL 107 - Night shift: 3<sup>rd</sup> party supplier fault – Strata. (55min)
4. FL 108 -
5. FL 112 -
6. FL 113 –
7. DT 146 - Morning shift: Auto electrical breakdown – Still need to see what it does regarding the temp issue. Did 3 loads and had a Strata issue. (9H16min)  
Night shift: Mechanical breakdown – No feedback. (3H07min)
8. DT 147 -
9. DT 149 -
10. DT 150 -
11. DT 162 -
12. DT 163 -
13. DT 171 –

**Planned work for the coming week:**

- Support on the S2 project. Joseph and attending.
- Doing audit on batteries to see which batteries are not working on what machines and fault finding to remedy the issues.
- Audit regenerative braking knobs to be overridden to 100%. Test done on DT163 and found successful. Change management to be done before we continue with the rest.

### **SERVICES:**

### **Nchwaning 3**

Maintenance Schedule Nov 2025				
Monday	Tuesday	Wednesday	Thursday	Friday
17-Nov-25	18-Nov-25	19-Nov-25	20-Nov-25	21-Nov-25
DT0118	DT0146	DT0163	DT0161	
FL0112	FL0099	FL0121		
HD0058	HD0061	HD0062	HD0069	HD0049

## 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 17 November 2025.

*Table 1: Battery pack availability for week 2025*

Battery Type	Battery ID	Status	Comment
B4 - ST14	VPY-00011	Breakdown	Battery is not charging. Busy with fault finding.
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	The newly replaced TMS has a compressor fault.
B4 - ST14	VPY-00086	Working	
B4 - ST14	VPY-00076	Working	
B4 - ST14	VPY-00083	Working	
B4 - ST14	VPY-00041	Working	
B5 - MT42	VPX-00016	Breakdown	Core 2 level 3 fault. It Needs a new sub pack.
B5 - MT42	VPX-00015	Working	
B5 - MT42	VPX-00023	Working	
B5 - MT42	VPX-00017	Working	

B5 - MT42	VPX-00010	<b>Working</b>	
B5 - MT42	VPX-00050	<b>Working</b>	
B5 - MT42	VPX-00031	<b>Working</b>	
B5 - MT42	VPX-00036	<b>Working</b>	
B5 - MT42	VPX-00028	<b>Working</b>	
B5 - MT42	VPX-00026	<b>Working</b>	
B5 - MT42	VPX-00024	<b>Working</b>	
B5 - MT42	VPX-00048	<b>Working</b>	
B5 - MT42	VPX-00044	<b>Surface</b>	On machine: 8997901500

### Battery overheat summary:

### FST Report Summary

#### Field Service on site:

- RT0062 – Fix issues identified with delivery.

### CAS Report Summary

<b>Report Type:</b>	Weekly	<b>Project Leader:</b>	Hennie van Niekerk
<b>Start Date:</b>	10-Nov-2025	<b>Report By:</b>	Bradley Nast
<b>End Date:</b>	10-Oct-2025	<b>Contract No:</b>	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 loaders and a truck in NCH3 software is upgrade and commissioned on CAS L9.
2. All Loaders in NCH2 are Updated and live on L9.
3. All ST14 in Gloria need a software update and re commissioning.

## Certiq & Mobilis 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. Some S2 machines on Nchwaning 3 still struggling with connection issues even after software upgrades.

Segunda to assist.