

Weekly Site Report

BLACK ROCK WEEKLY REPORT

Weekly PSD Report
EPIROC SA

Contents

Weekly Service Report – Black Rock Mine Operations	2
Report Summary	2
General Summary	2
BEV - Critical Issues Summary.....	2
CAS L9 Implementation - Critical Issues Summary	3
Certiq & Mobilaris - Critical Issues Summary	3
BEV – MH4.0 Upgrades.....	3
Passport 360 Compliance	3
BEV Report.....	3
Weekly machine utilization summary:	3
Planned work for the coming week :	6
Battery and Charger Status Report.....	7
General summary.....	7
FST Report Summary.....	8
Field Service on site:	8
CAS Report Summary	8
Critical Issues	8
Progress Update	8
Certiq & Mobilaris Report Summary	9
General summary.....	9

Weekly Service Report – Black Rock Mine Operations

Report type:	Weekly	Submitted to:	Sello Taku and Sipho
Week Date:	08 November 2025	End Date	14 November 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

- 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.
-

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

BEV – MH4.0 Upgrades

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

Passport 360 Compliance

- BEV Technicians: **96%**
- CASL9 (Gloria): **100%**
- CASL9 (Nch2): **98%**
- CAS L9 (Nch3): **98%**
- CertiQ & Mobilaris N2: **92%**
- CertiQ & Mobilaris Gloria: **83% - John needs to offboard.**

BEV Report

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: 3rd 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: 3rd 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: 3rd 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 – Inverter error, Recovered machine to workshop. (4H31min)
2. FL 99 - Morning shift: 3rd 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: 3rd 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: 3rd 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	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

Battery overheat summary:

FST Report Summary

Field Service on site:

- RT0062 – Fix issues identified with delivery.

CAS Report Summary

Report Type:	Weekly	Project Leader:	Hennie van Niekerk
Start Date:	10-Nov-2025	Report By:	Bradley Nast
End Date:	10-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 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 & 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. Some S2 machines on Nchwaning 3 still struggling with connection issues even after software upgrades.

Segunda to assist.