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:	28 Augustus 2025	End Date	03 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.



DT150 – Long standing times because of support equipment and tools needed to do the job.

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 28 August 2025:

- 1. FL 98 -
- 2. FL 99 -
- 3. FL 107 Night shift: Electrical breakdown No feedback.
- 4. FL 108 Night shift: Electrical breakdown The female pins on X10:1 is faulty and causing the Main battery loose 24v, so we need to replace the harness. Temporarily fixed harness. (4D20H34min)
- 5. FL 112 Night shift: Aircon fault No feedback. (1H01min)
- 6. FL 113 -
- 7. DT 146 -
- 8. DT 147 -
- 9. DT 149 Afternoon shift: Electrical breakdown Monitor and camera is fitted and the wire is routed inside the cab behind the dashboard. Will connect the wiring tomorrow.
- 10. DT 150 Ongoing breakdown: Waiting tools. Don't have the right tool to tighten suspension cylinder nut.
- 11. DT 162 Morning shift: #rd party supplier Strata (2H53min)
- 12. DT 163 -



13. DT 171 -

Friday 29 August 2025:

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1. FL 98 -
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- 2. FL 99 -
- 3. FL 107 -
- 4. FL 108 -
- 5. FL 112 -
- 6. FL 113 -
- 7. DT 146 -
- 8. DT 147 Night shift: 3rd party supplier: Strata (46min)
- 9. DT 149 -
- 10. DT 150 Ongoing breakdown: Waiting tools. Don't have the right tool to tighten suspension cylinder nut.
- 11. DT 162 -
- 12. DT 163 -
- 13. DT 171 -

Saturday 30 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 Ongoing breakdown: Waiting tools. Don't have the right tool to tighten suspension cylinder nut.
- 11. DT 162 -
- 12. DT 163 -
- 13. DT 171 -

Sunday 31 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 Ongoing breakdown: Waiting tools. Don't have the right tool to tighten suspension cylinder nut.



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

Monday 01 September 2025:

- 1. FL 98 -
- 2. FL 99 -
- 3. FL 107 -
- 4. FL 108 -
- 5. FL 112 Night shift: Aircon fault Changed aircon pump (03D07H48min)
- 6. FL 113 -
- 7. DT 146 -
- 8. DT 147 -
- 9. DT 149 -
- 10. DT 150 Ongoing breakdown: Waiting tools. Don't have the right tool to tighten suspension cylinder nut.
- 11. DT 162 -
- 12. DT 163 -
- 13. DT 171 -

Tuesday 02 September 2025:

- 1. FL 98 Afternoon shift: Mechanical breakdown No feedback. (30min)
- 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 Ongoing breakdown: Waiting tools. Don't have the right tool to tighten suspension cylinder nut.
- 11. DT 162 -
- 12. DT 163 -
- 13. DT 171 Morning shift: Mechanical breakdown D510 Module Sensor Voltage Error X12 on machine short circuit cable needs to be checked where it is damaged or shaved it goes to the bucket down proxy. (22H41min)

Wednesday 03 September 2025:

- 1. FL 98 -
- 2. FL 99 -
- 3. FL 107 -
- 4. FL 108 Morning shift: Mechanical breakdown No feedback. (1H14min)

 Morning shift: 3rd party supplier Strata. (48min)
- 5. FL 112 Morning shift: Mechanical breakdown Boilermaker repaired light bracket. (44min)
- 6. FL 113 Afternoon shift: Electrical breakdown Reset BMS error. (43min)
- 7. DT 146 -
- 8. DT 147 Afternoon shift: Mechanical breakdown Battery not connecting. Changed battery. (49min)





- 9. DT 149 -
- 10. DT 150 Ongoing breakdown: Waiting tools. Don't have the right tool to tighten suspension cylinder nut.
- 11. DT 162 -
- 12. DT 163 Night shift: 3rd party supplier Strata (Ongoing breakdown) (9H46min)
- 13. DT 171 Afternoon shift: Auto electrical breakdown Pin for high voltage plug stuck inside. Pulled out pin. **(8H46min)**

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
8-Sep-25	9-Sep-25	10-Sep-25	11-Sep-25	12-Sep-25
DT0131	DT0160	DT0147		
FL0103	FL0098	FL0090	FL0080	

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.

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
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-00015	Surface	Battery on surface. Waiting to go down.
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





Field Service on site:

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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 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.

<u>NCH3:</u>

1. Support contract expired.

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