# 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 July 2025	End Date	31 July 2025		
Reported By:	Philip Moller				
BEV:					
Service Tech:	Ivan Phiri	Service Tech:	Lukas Serumola		
Service Tech:	rvice Tech: Patricia Mazinyo		Patrick Yoko		
Specialist:	pecialist: Frikkie van der Walt (Leave)				
Field Service:	Field Service:				
Service Tech: Alpheus Mareke		Service Tech:	Mathews Mosemane		
CAS Project:					
Team Leader:	Bradley Nast	Service Tech:	Phineas Sibanda		
Service Tech:	Service Tech: Julius Manamela				
Certiq Project:					
Team Leader: Segunda Fernado		Service Tech:			
Mobilaris:	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.



- **FL107** locked out until bucket is fixed. Ended up using it like that. Caused very long downtime of **6D08H12min**.
- DT 150 Multiple issues with gears going to neutral.
- Looking into mirror damages on MT42B trucks. Looking at the design and placement of the mirror.
- Critical spares list to be reviewed this week Thursday on site with Sello Sease and team.
- Discuss the utilisation of 1 Epiroc artisan to oversee and assist with services.
- **DT149** Waiting for parts. Hydraulic block ordered. Lead time 9-14 days. Stripping part from machine in Jet Park.

#### CAS L9 Implementation - Critical Issues Summary

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#### 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%

## **BEV Report**

#### Weekly machine utilization summary:

# Monday 28 July 2025:

- 1. FL 98 –
- 2. FL 99 Morning Shift: Mechanical breakdown Tyre change. (7H21min)
- 3. FL 107 -



- 4. FL 108 Morning shift: Electrical breakdown Replaced wiper blade. (21min)
- 5. FL 112 -
- 6. FL 113 Morning Shift: Mechanical breakdown: Calibrate transmission. (1H16min)
- 7. DT 146 Morning shift: 3rd Party Supplier Fault Strata. (9H18min)
- 8. DT 147 Morning shift: Electrical breakdown No feedback. (2H38min)
- DT 149 Afternoon shift: 3rd Party Supplier Fault Strata. (1H22min)
   Afternoon shift: Electrical breakdown Oil leak at bucket control valve, underneath the Battery did not finish. Asked night shift to continue. (22H47min)
- 10. DT 150 Morning shift: Mechanical breakdown Park brake problem. Fields on this machine are out of range, sometimes it doesn't even detect pedestrians again it applies park brake when the machine turns hard more especially on the left side. (Epiroc and STRATA) (1H42min)
- 11. DT 162 Afternoon shift: Electrical breakdown No feedback. (50min)

  Afternoon shift: Electrical breakdown No feedback. (2H03min)
- 12. DT 163 Afternoon shift: Mechanical breakdown Top up hydraulic oil. (1H25min)
- 13. DT 171 -

# Tuesday 29 July 2025:

- 1. FL 98 -
- 2. FL 99 -
- 3. FL 107 -
- 4. FL 108 Morning shift: Electrical breakdown wiper is not working because Wimpy removed the relay. It doesn't switch off and will attend to it over the weekend. (9min)
- 5. FL 112 -
- 6. FL 113 -
- 7. DT 146 -
- 8. DT 147 Afternoon shift: Electrical breakdown No feedback. (35min)
  Afternoon shift: Tyre Bay breakdown Changed tyre. (1D6H33min)
- 9. DT 149 -
- 10. DT 150 Morning shift: Mechanical breakdown Park brake problem. Fields on this machine are out of range, sometimes it doesn't even detect pedestrians again it applies park brake when the machine turns hard more especially on the left side. (Epiroc and STRATA) (2H10min)

Afternoon shift – Same issue with brakes applying. (17H51min)

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

# Wednesday 30 July 2025:

- 1. FL 98 -
- FL 99 Night shift: Mechanical Replace hydraulic hose from pump to motor. (13H04min)
   Night shift: Mechanical was booked with water leak on night shift 20h32. Was tested on day shift and couldn't find any leak and booked it back for production. NO FAULT!
   (12H48min)
- 3. FL 107 -
- 4. FL 108 Morning shift: 3rd Party Supplier Fault Strata. (45min)
- 5. FL 112 -
- 6. FL 113 Morning shift: Electrical No feedback. (1H)
- 7. DT 146 Afternoon shift: Mechanical BMS Error. (49min)

- 8. DT 147 -
- 9. DT 149 Night shift: Mechanical Hydraulic oil leak. Ordered parts, lead time 9-14 days. (15H50min)
- 10. DT 150 Morning shift: Park brakes applying problem. (20H25min)
- 11. DT 162 Morning shift: Mechanical Replaced mirror bracket. (2H32min)
- 12. DT 163 Afternoon shift: Mechanical Low hydraulic oil, topped up. (1H)
- 13. DT 171 night shift: Electrical BMS error fixed. (17min)

# Thursday 31 July 2025:

- 1. FL 98 -
- 2. FL 99 -
- 3. FL 107 -
- 4. FL 108 -
- 5. FL 112 Night shift: Electrical Replace 12V batteries. (10H50min)
- 6. FL 113 -
- 7. DT 146 -
- 8. DT 147 -
- 9. DT 149 -
- 10. DT 150 -
- 11. DT 162 -
- 12. DT 163 -
- 13. DT 171 -

#### Planned work for the coming week:

• DCDC and PSB campaign plan to be actioned.

#### **SERVICES:**

4-Aug-25	5-Aug-25	6-Aug-25	7-Aug-25	8-Aug-25
Monday	Tuesday	Wednesday	Thursday	Friday
DT0118	DT0149	DT0160	DT0146	
N3 CAS 3Monthly Inspection	N3 CAS 3Monthly Inspection	N3 CAS 3Monthly Inspection	N3 CAS 3Monthly Inspection	
DT Mech Wk. Insp	N3 MT42B Mech Daily Inspection	DT Mech Wk. Insp	N3 MT42B Mech Daily Inspection	
D.T BUCKET/CHASSIS/ARTIC Insp	N3 MT42B Load Box / Chassis /A	D.T BUCKET/CHASSIS/ARTIC Insp	N3 MT42B Load Box / Chassis /A	
	FL0090 - 250Hrs - 1828538	FL0113	FL0091 - 250Hrs - 1828540	
	N3 CAS 3Monthly Inspection	N3 CAS 3Monthly Inspection	N3 CAS 3Monthly Inspection	
	ST14 250 Hours Service		ST14 250 Hours Service	
	N3 FL Diesel Auto Electrician		N3 FL Diesel Auto Electrician	
	Loader ST14 Mech Wk. Insp	N3 MT42B Mech Daily Inspection	Loader ST14 Mech Wk. Insp	
	FEL Ins BCKT/S-BLOCK/ARTIC Wk	N3 MT42B Load Box / Chassis /A	FEL Ins BCKT/S-BLOCK/ARTIC Wk	

**Battery and Charger Status Report** 



#### General summary

#### ST14 - B4 battery packs

• We currently have 10 x ST14 – B4 battery packs and 5 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 10 x MT42 – B5 battery packs operational underground. This is above the committed ratio of 1.6 batteries per machine.

#### 160 kW Chargers

- Module 4 was found to be the fault on charger 7, charger module needs to be replaced.
- Charger 1 has a faulty fan that 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.
   Meeting between Epiroc and Black Rock to take place to discuss general wear and tear vs damages.
- There are more noted charger stops; this is being investigated with initial indications being worn out charger and CCS battery inlet connectors.

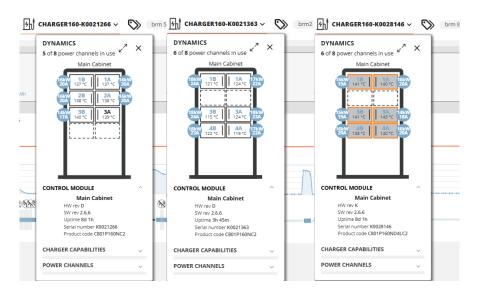


Figure 1: Chargers 2, 5 and 7 are missing 1 module each



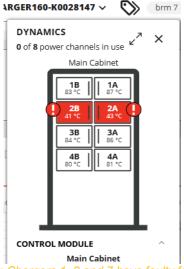


Figure 2: Chargers 1, 8 and 7 have faulty fans that need to be replaced

Table 1: Battery pack availability for week 10 2025

Battery Type	Battery ID	Status	Comment
B4 - ST14	VPY-00011	Working	Comment
B4 - ST14	VPY-00031	Working	
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-00006	Breakdown	Battery overheating. Busy with fault finding. (6D)
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

## **FST Report Summary**

#### Field Service on site:

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## **CAS Report Summary**

Report Type:WeeklyProject Leader:Hennie van NiekerkStart Date:09-Jun-2025Report By:Bradley NastEnd Date:13-Jun-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 review and commissioning in progress. NCH3 is on a support contract.

#### NCH2:

From the 22 machines:

- 9 Machines, documentations have been sent for signatures,
- 5 machines are in order the project team is currently preparing the commissioning document,
- 8 machines are under investigation

#### Gloria:

From the 13 machines:

- 4 machines are commissioned
- 6 machines, commissioning documents are sent for signatures
- 1 Machine the engine hours are on the portal are not corresponding with the actual machine hours
- 2 machines are exempted from the project do to the ECU

#### NCH3:

#### 1. Mobilaris

- a. Primary machines 52.
- b. Primary machines reporting on Mobilaris is 43
- c. Total compliance 82%

#### 2. Certiq

- a. Primary machines 52
- b. Primary machines with kits installed 38
- c. Total number of machines reporting 29
- d. Total compliance 76%

#### 3. Issue log and resolutions

resolutions
Change the machine name from the DT0154 to the serial number on the MCG
Raised ACIGN before requesting new part
Replace software with correct one
ACIGN raised.
Quotation submitted for order.