

17 July 2019

# Exxaro Grootegeluk RTMS journey

## RTMS PRESENTATION

**exxaro**

POWERING POSSIBILITY

# Exxaro Grootegeluk Complex

Who are we?

- The Grootegeluk Complex is a Coal mine situated in Lephalale
- We are the largest coal processing plant in the world
- Our main coal delivery systems are via conveyor, rail and road
- We currently dispatch an average of 500kt of coal per annum via road
- We operate under the following legislation
  - Mine Health and Safety Act (MHSA)



# Exxaro Grootegeluk Complex

## Why RTMS?

- **As a Consignor\Consignee, we have a responsibility to ensure that we do not allow our product to be loaded on un-roadworthy vehicles.**
- **We need to ensure equipment operators are healthy, trained, licensed and fit for duty at all times.**
- **We have a responsibility to ensure we load and receive all our products and materials in a safe, legal manner.**
- **With all our systems in place it was a natural step to move towards accreditation.**



# Exxaro Grooteegeluk Complex

## What have we done?

### Safety Management

Under the guidance of the MHSA and our own safety standards we started regulating the haulers loading coal and implemented the following:

- **Medical examinations**
- **Site specific inductions for truck drivers**
- **The hauler vehicles are subjected to a full roadworthy inspection done by delegated mine officials**
- **We are in process of implementing a full online portal for all haulers.**



**MOBILE EQUIPMENT: Inspection are compulsory and equipment must be found safe for use on GGC premises**

Inspected by: 2.13.3.1 Engineer / Authorized Delegate:

Inspection Date \_\_\_ / \_\_\_ / 20 \_\_\_.

Section / Contractor: \_\_\_\_\_

Representative: \_\_\_\_\_

Name \_\_\_\_\_

Equipment details \_\_\_\_\_

Vehicle description: \_\_\_\_\_

OEM: \_\_\_\_\_

Model: \_\_\_\_\_

Registration No: \_\_\_\_\_

No \_\_\_\_\_

**INTERLINK TRUCK - HORSE**

UPDATED ON: **2015-10-12**

**Equipment Operating personnel detail:**

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Competence and written authorization to be verified	Correction done
In order	Not in order	Not applicable	Minimum requirements guideline	Confirmation date
			Verify on Exaro license card. Applicable for Drivers entering red permit area in mine	
			Verify on Exaro license card. Compulsary. <b>Driver Name:</b> _____	
			Expire date: _____ Verify on Blue Card for competence for type of vehicle	

**Authorizations needed:**

- Red permit (For use when driving any vehicle in red area)
- I-Permit (Exaro Employees) / Defensive driving (Contractors)
- Equipment specific training (Blue card)

**Inspection details**

General condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As such to allow proper inspection	
Chassis / safety guards (Cracks / loose or missing guards)				No cuts / loose or worn thread / no loose /missing studs or nuts	
Tyres, rims, studs, nuts, tread, cuts, cracks, etc./ Tracks				Park brake to be tested on incline & 40 km/h service brakes test on open road	
Braakes: service, park, hand, etc.(Physical test done)				Compulsory for night	
Rotary light (orange)				Check for working, direction, cracks, secure	
Head lights				Check for working, direction, cracks, secure	
Tail lights (Red)				Check for working, direction, cracks, secure	
Brake lights (Red / bright)				Check for working, direction, cracks, secure	
Indicator lights (Orange)				Check for working, direction, cracks, secure	
Reverse (white)				Check for working, direction, cracks, secure	
Mirrors (position, blind spots)				Properly adjusted	
Windscreens, windows, window wipers, etc.				No large crack that could impair driver vision	
Wipers				Condition of blade, working	
Seats & safety belts (Ergonomics, test working)				Compulsary, all seats equipped with safety belts	
Doors, knobs, handles, hinges, locks, etc				Test door handles for in and out open	
Controls: pedals, steering mechanisms etc.				Rubber lining on pedals	
Spillages / leaks: Oil, Fuel, grease, etc.				No leaks allowed	
Goods transport certificate (paper disk /where applicable)				Expire date: _____	
Proof of license				Paper disk on window. Expire date: _____	
Number plates				Properly fitted/ No straps	
Elevated red flag (Min 3.5m from ground level)				Required for Red permit or Red flag areas. Bracket properly fitted / no straps or wires	
Rotating parts (pulleys, shafts, fans, ect.) - SAFETY SIGNS	---	---	N/A		
Nip points (V-belts, swivel points, ect) - SAFETY SIGNS	---	---	N/A		
Hom / hooter					
Loadbin raised indication (Hooter in cab)				Applicable for back tippers. Limit on loadbin self and not PTO	
Reverse /Travel alarm (Restricted sight / all LDV on worksite)				Compulsary for all trucks. Loud enough to be properly heard from back of last trailer.	
Fire extinguishers (Inspect,register, sticker, bracket, access)				Expire date: _____ (Compulsary for site vehicles)	
Isolator switch (lock out mechanism/facility)				If not installed then SWP must address isolation procedure	
Ladders, catwalks, handrails, steps, etc.					
Key control				Unique key , electronic immobiliser	
Stop blocks x2 (Large enough/lightweight/easy accesable)				No damage allowed, not even to outer rubber sheath	
Pipes / cylinders (Leaks,damage, cracks, ect)				Check bolts tightness and locking pin in position	
Towbar (Maxtare of trailer indicated / tare <50% of vehicle)				Needed for breakdown	
Emergency triangles x2	---	---	N/A	Some mounted on front trailer other via service truck	
Spare wheel and holder				Jack specs	
Jack & wheel spanner				SWP no: _____ Approved , Understand & accepted by all drivers	
SWP / HIRA done on the use of the equipment				Dimensions indicated	
Reflective tape( Vehicle dimensions indicated)				Documentation to be available. Owner to supply record	
Service records and schedule				To be available and updated on equipment. ( GO / NO GO / GO-BUT )	
Pre-shift inspection book				To be available per truck type	
Area of visibility chart to indicate dead spots					

**Inspection outcome:**

The equipment mentioned is hereby declare as:

Mark selection with "X"  
 SAFE  NOT SAFE

for use on Grootegeluk Complex premises.

Conditions for use: \_\_\_\_\_

Window sticker type to be issued:

Mark selection with "X"  
 Projects Triangle  Equipment Specific  NONE

V-Permit	C-Permit	H-Permit
Projects Triangle	Equipment Specific	NONE

V- Exxaro Employees, C- Contractors, H- Exxaro vehicles, Y-Project Employees. Exit/enter mine regularly

V, C, H, Y Permits issued by Security at GGC main entrance. Equipment specific permit issued at section

Equipment specific indicate inspected and approved to work on mine. NOT exit/enter mine regularly

Recommend by: (Authorized Delegate Sign) : \_\_\_\_\_ Approved by: (2.13.3.1 Engineer Sign) \_\_\_\_\_ Date: \_\_\_ / \_\_\_ / 20 \_\_\_.

Noted: Equipment Representative sign: \_\_\_\_\_ Date: \_\_\_ / \_\_\_ / 20 \_\_\_.



# Exxaro Grootegeluk Complex

## What have we done?

- Since implementation our contractor number went down from over 10 to 5 full time, four are RTMS Accredited
- We created a procedure and monthly report that all non-accredited haulers are to complete.

	A	B	C	D	E	G
4		Month			January	
5		People				
6					Number	
7		Employees				Total number of employees registered on GGC systems
8		New employees				New employees that will nter the system this month
9		Employees exited				Employees scheduled for medical exit.
10		Medicals expired				Number of employees that has expired medicals
11		Medicals scheduled				Number of employees scheduled for medicals
12		PDP expiring during month				Number of employees with PDP's expiring this month
13		Expired PDP				Number of employees with expired PDP's without proof of temporary license
14		Renewed PDP				Proof of expired PDP's that has been renewed
15						
16		Equipment				
17					Number	
18		Combinations				Total number of combinations with W-permits that are registered on the system
19		New combinations				Number of new combinations to be inspected this month
20		Combinations removed				Number of equipment removed from GGC systems
21		Combination serviced				number of combinations that will be serviced during the month
22		License renewals				Number of combinations with license renewels for the month
23						
24		Reportables				
25					Number	
26		Total driver hours				Total number of driving hours accumulated durning the month by all registered drivers
27		Driving hours exceeded				Total number of times drivers exceeded stipulated driving hours procedure
28		Accidents\crashes\spilages				Total number of incidents involving registered combinations for the month
29		Traffic violatoins				Total number of traffic violations on registered combinations for the month
30		Service over-runs				Total number of combinations missing service interval as laid out in service procedure for the month.



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What we had



What we have



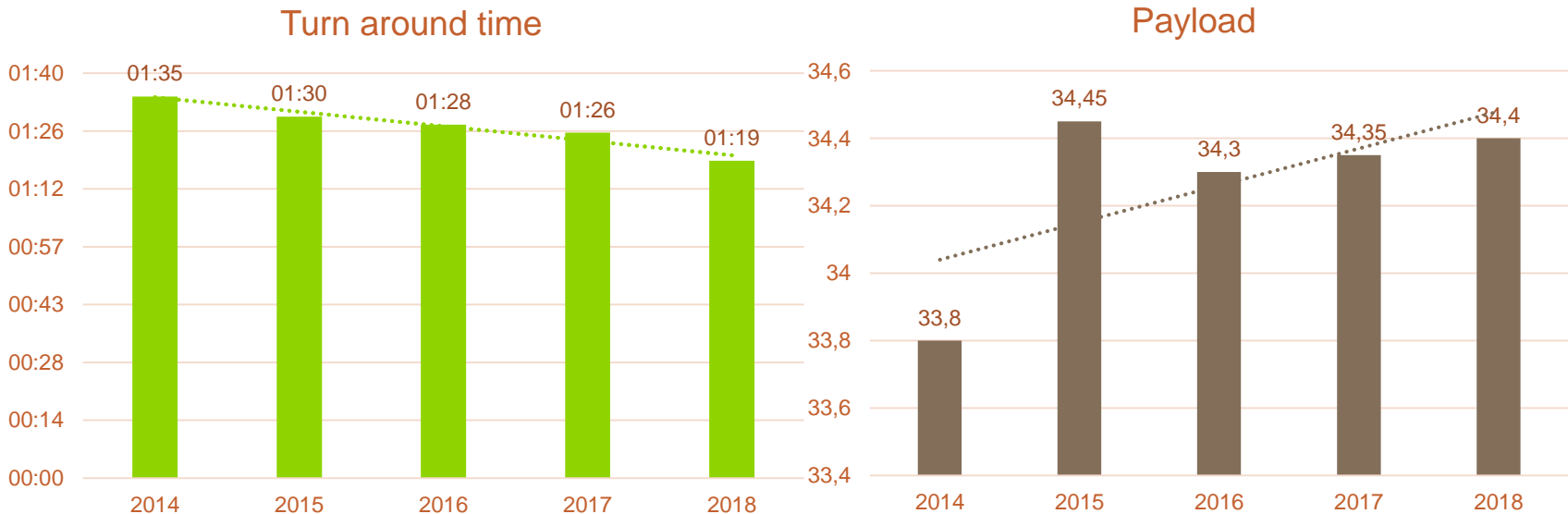


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What have we achieved?

## Performance management

- Started measuring truck turnaround times as well as payload maximization



- We have eliminated overloading with our weighbridge system.



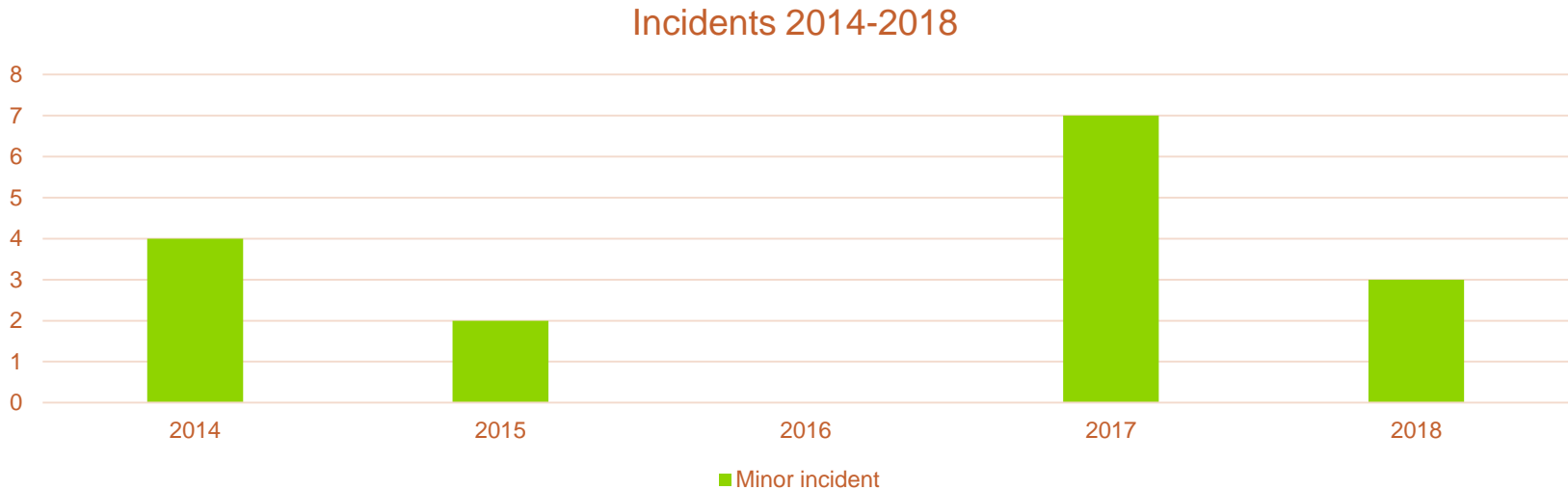


# Exxaro Grootegeluk Complex

## What have we achieved

### Safety Management

- Since implementing our contractor management on haulers in 2011, Grootegeluk has not had any major reportable incidents involving any of our haulers





# Exxaro Grootegeluk Complex

## What accredited haulers offer us as consignors/consignees

As a company making use of 3<sup>rd</sup> party haulers we have limited control over what happens outside the mine with our product

- RTMS is a verifiable management system
- As the system is self-regulatory, accredited haulers show a willingness to maintain and improve their operations, management and safety
- The contractor equipment is adequately maintained
- Operators are properly trained and behavior is monitored.



# Exxaro Grootegeluk Complex

## In Conclusion

- While both the MHSa and our internal SHEQ standards did contribute to the improvement of our safety record since their implementation, we would also like to acknowledge the value the RTMS system added.
- With the new Consignor Consignee determination it makes sense to have as many Accredited Haulers in your system.
- By creating a simple monthly reporting system a consignor, consignee could potentially assist a hauler in moving towards RTMS certification.
- We are all responsible to ensure our roads become a safer place, RTMS is a tool that will assist with it.



## **Disclaimer**

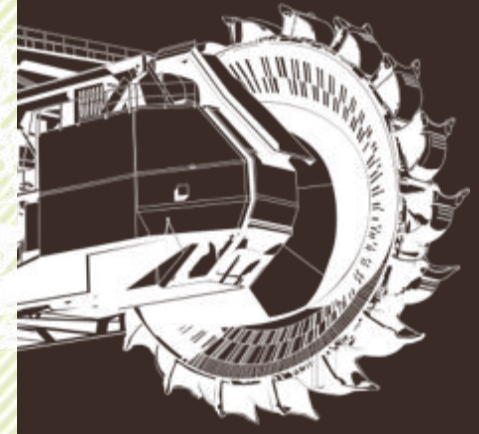
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