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# It pays to get your hands dirty.

## ENGINE RESTORATION CHALLENGE **RATION** *Powered by Engen*

Restore an old stationary engine  
and you could win your share of R200 000!



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## A Tradition of Quality

Engen has been trusted for generations to keep things running smoothly on the farm. With a wide range of technologically advanced products especially developed with South Africa's extreme and erratic weather conditions in mind, farmers can always be assured that with Engen they are getting the best product for any situation, come what may.

Together with SAVTEC (South African Federation of Vintage Tractors and Engine Clubs), Engen is incredibly proud and excited to challenge you to work within a team to restore an old vintage stationary engine.

Definition: Entrants may enter any vintage internal combustion engine which uses reciprocating (moving backwards and forwards in a straight line) motion to convert heat energy into mechanical work and is not mobile. The intended use would have initially been to drive agricultural equipment. Stationary engines were typically used on a farm or farmyard to generate power, pump water and to drive various equipment used by the farmers for agricultural purposes. Minimum age of engine - not less than 30 years old.

Here's why we think it pays for you to get your hands dirty and get involved in this exciting new challenge!

- You will stand the chance to win a share of R200 000.
- You will develop your skills in engine restoration.
- You will develop your team work and business skills such as budgeting, planning, project management and, have fun doing this!

## How to get involved

This is a team challenge so you can register as a team. There are two different categories which you can register for:

	Requirement	Team
Junior Category	Rebuild any old stationary engine.	The team must consist of 2-5 scholars (under 18 years old) with an experienced mentor (can be parent or teacher).
Senior Category	Rebuild any old stationary engine.	The team must consist of 2-3 youths (under 30 years old) with an experienced restorer as a mentor. If no mentor is available – SAVTEC members will assist in appointing a mentor.

Cash incentives on offer for qualifying mentors.

To register your team, visit [www.engen.co.za](http://www.engen.co.za) and click on the Engine Restoration Challenge link.



Once your team has been registered, you will need to find an old vintage stationary engine to restore:

- The engine must be 30 years or older and must be restored to a fully operational condition.
- The engine must have been originally manufactured to function as a stationary engine and not an automotive engine.

In addition to restoring an engine, teams will also be expected to complete a workbook with photographs to prove the engine has been restored.

### Full requirements of the workbook

An A1 sized poster to present the following:

- (a) The engine name/model/and power output
- (b) The original condition of some items
- (b) The restoration process
- (c) Operation of the engine and what it was used for

The teams are to present and demonstrate their restored engines to SAVTEC judges (the team is required to present, not the mentor) as well as be required to answer any judge's questions about their restored engine. The demonstration and Q&A may not exceed 20 minutes.

Competition entries close end of January 2018.

### The prizes

How much does it pay to get your hands dirty?

	1st Prize	2nd Prize	3rd Prize
Junior Category	R30 000 cash each team	R20 000 cash each team	R10 000 cash each team
Senior Category	R30 000 cash each team	R20 000 cash each team	R10 000 cash each team

That's R120 000 prize money and a further R80 000 of hamper and cash incentives for winners and mentors.

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## Judging process

- All registered teams are required to email their workbooks to [sekr.wk@telkomsa.net](mailto:sekr.wk@telkomsa.net) by 1 May 2018.
- All entries will be reviewed and if they comply with the rules and guidelines the team/s will be contacted to participate in the first round of judging. (Regional Semi-Finals).

### Regional Semi-Finals – 16 June to 14 July 2018:

- Teams will be invited to demonstrate their engines and present their workbooks to the judges at their closest SAVTEC club:
  - Club A (KwaZulu-Natal)
  - Club B (Eastern Cape)
  - Club C (Western Cape)
  - Club D (Northern Cape)
  - Club E (Vaalharts)
  - Club F (Central Free State)
  - Club G (Eastern Free State)
  - Club H (Northern Free State)
  - Club I (North West)
  - Club J (Highveld) etc.
- Teams will be required to transport themselves and their engines to their closest SAVTEC club where teams will be judged by 3 official qualified judges (a maximum of 2 judges will be from the SAVTEC club).
- Teams will be judged from a total score of 250 points in accordance with SAVTEC's scoring standards:
  - Workbook: 100 points
  - Restored engine: 100 points
  - Presentation/demonstration and Q&A: 50 points
- The two highest scoring teams (who exceed 80%) from each category from each club will be invited to present at the finals on 6th October 2018 (Venue TBA).
- All finalist teams will be re-judged and scored in the Final Round (workbook points will be carried over to the Final round as is).
- The teams will be required to transport their engines to the final venue.
- Winners will be announced at an awards ceremony on the day of the finals.
- The 3 judges will be appointed by SAVTEC and will include one Engen representative.
- Only one of the three judges may belong to the club of origin of the entry.
- All scoring will be transparent and available for discussion post the finals.



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## Workbook requirements

Teams are required to submit an electronic workbook with photographs to prove that their engine has been fully restored. The info will reflect the level of effort and detail contributed by the team members.

Below is an outline of all the sections you should include in your workbook.

### 1. Introduction (worth 10/100 points)

Tell us about yourself and why you have entered this challenge. Include full names, ages, schools (if applicable) of team members and the mentor. Tell us your team name if you have one. Tell us how you came together, where and how you chose your old engine. Include any information about your experiences together as a team.

### 2. Overall condition (worth 10/100 points)

Include pictures and a detailed description of the engine before restoration commenced. Detail the history of the use of the engine during its working life before restoration. Include as many photos as possible.

### 3. Restoration details (worth 10/100 points)

Report on the condition of each part of the engine (e.g. fuel, ignition & cooling systems) and what was required to get it in working condition.

### 4. External appearance (worth 5/100 points)

Report on the condition of the overall exterior condition of the engine (e.g. dents, rust, missing covers and components) and detail what was needed to repair and replace it to its original specification.

### 5. Internal and external mechanical reports (worth 15/100 points)

Provide information of the time spent on the different parts of the engine. This must include the individual team members and differentiate between the various skills used. Please write down any external assistance that was needed.

### 6. Expense report (worth 15/100 points)

Provide a budget of what you intended to spend on your restoration and then keep track of all your expenses. Expenses would include spare parts purchased, materials purchased, labour costs for outside work done, travelling expenses etc. Costs of donated items must be included but indicated as such. Once complete show a comparison between your budgeted costs and what you actually spent.

### 7. Safety report (worth 5/100 points)

Report on what safety measures were needed and taken to protect the team and any persons involved with the restoration. This would include protective clothing and safety revolving around lifting equipment etc.

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#### 8. Self-discovery (worth 10/100 points)

Write a short essay which will tell the story of your restoration journey. What lessons and skills have you learned and discovered? What life skills have you learned that will help you in future? What was fun and what was not? What would you do differently next time? Would you do it again?

#### BONUS Points

- 10 points will be awarded to the overall impression of your workbook.
- 10 points will also be awarded for showing the use of Engen products in your restoration and detailing how these products performed and how they were used.

#### TIPS

- The workbook contributes over a 3rd of your total score - so ensure it is thoroughly completed.
- Include as many photos needed to prove your point!
- Have fun with the book and show us how much fun you had!

## Product info



Help restore your engine with quality Engen products!

Engen Dynamic Diesel makes any engine feel like new.

Engen Dynamic Diesel is a fuel so advanced that it not only protects new engines, but also cleans the fuel systems of older engines to help restore lost power. Its trademarked additive counteracts injector fouling - increasing fuel economy and enhancing engine performance.

Get the best protection from Engen's quality agricultural lubricants.

South African farming conditions are known to be some of the toughest in the world. Agricultural equipment operating in these extreme conditions requires the best possible protection. Engen's agricultural lubricants have been specifically developed for harsh South African conditions.

Engen has more than a century of experience lubricating and protecting agricultural equipment in this severe operating environment. This range of high performance, hardworking agricultural lubricants was developed through Engen's experience in the South African agricultural sector. These products have been tested and endorsed by most manufacturers of modern agricultural equipment operating in South Africa. Engen's high performance, hardworking, quality guaranteed agricultural lubricants will provide your equipment with the best possible protection in the harshest South African conditions, increasing productivity, reducing costs and giving you the peace-of-mind you deserve. So rest assured, when you use Engen you get the cream of the crop when it comes to oils and lubricants. No wonder farmers have been trusting Engen for generations to keep things running smoothly on the farm.

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#### ENGEN DIESELUBE 700 SUPER

An advanced high performance multigrade oil. Provides a high level of wear protection and ensures superior cleanliness at extended drain intervals. Engen Dieselube 700 Super has excellent control over soot induced wear.



#### ENGEN AGRITRAC SUPER UNIVERSAL

A new generation 'Super Tractor Universal Lubricant' (STOU) designed to provide the farmer with ONE top quality, multigrade, multi-functional lubricant. Suitable for naturally aspirated and turbocharged engines as well as older petrol engines, manual transmissions, final drives including those fitted with wet brakes and hydraulic systems.

## Contact Us

To register your team visit [www.engen.co.za](http://www.engen.co.za) and click on the Engine Restoration Challenge link. If you have any queries about the challenge, contact us at [sekr.wk@telkomsa.net](mailto:sekr.wk@telkomsa.net)



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