



ECO Mine Systems

- Lowers Emissions
- Increases Performance
- Saves Fuel
- Lowers Maintenance
- Helps the World Breathe Easier
- NO maintenance, NO consumables are required
- Guaranteed and Warranted

Test Results of ECO Systems

www.ecosystemsgb.com

2020/11/15

Overview



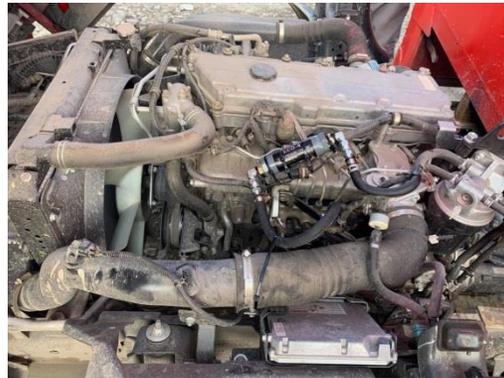
Supplier:	ECO Mine Systems (Distributor of ECO Systems in Mongolia)
Fleet Owner:	MCS Coca Cola LLC (Coca Cola Distributor in Mongolia)
Work Scope:	<p>MCS Coca Cola LLC has been facing extensive level of emissions, maintenance and fuel spend issues to its fleet for the last 5 years and were seeking to resolve the issues through innovative technologies.</p> <p>MCS Coca Cola LLC requested ECO Mine Systems LLC to test ECO Systems on 3 types of vehicles for the period of 1 month and show the real time results on emissions and fuel spend.</p> <p>Testing Period: October 2nd, 2020 – November 4th, 2020</p>
Type of ECO Unit tested:	ECO# 4

Vehicle information:



	Model	Engine size	License Plate No.	ODO	Type of vehicle	ECO Types
1	HYUNDAI	3,907cc	5411YHT	178,165km	On highway trucks	ECO#4
2	Mitsubishi Fuso	7,545cc	4316YBY	168,441km		ECO#4
3	ISUZU	5,190cc	9516YAK	3,795km		ECO#4

Photo's

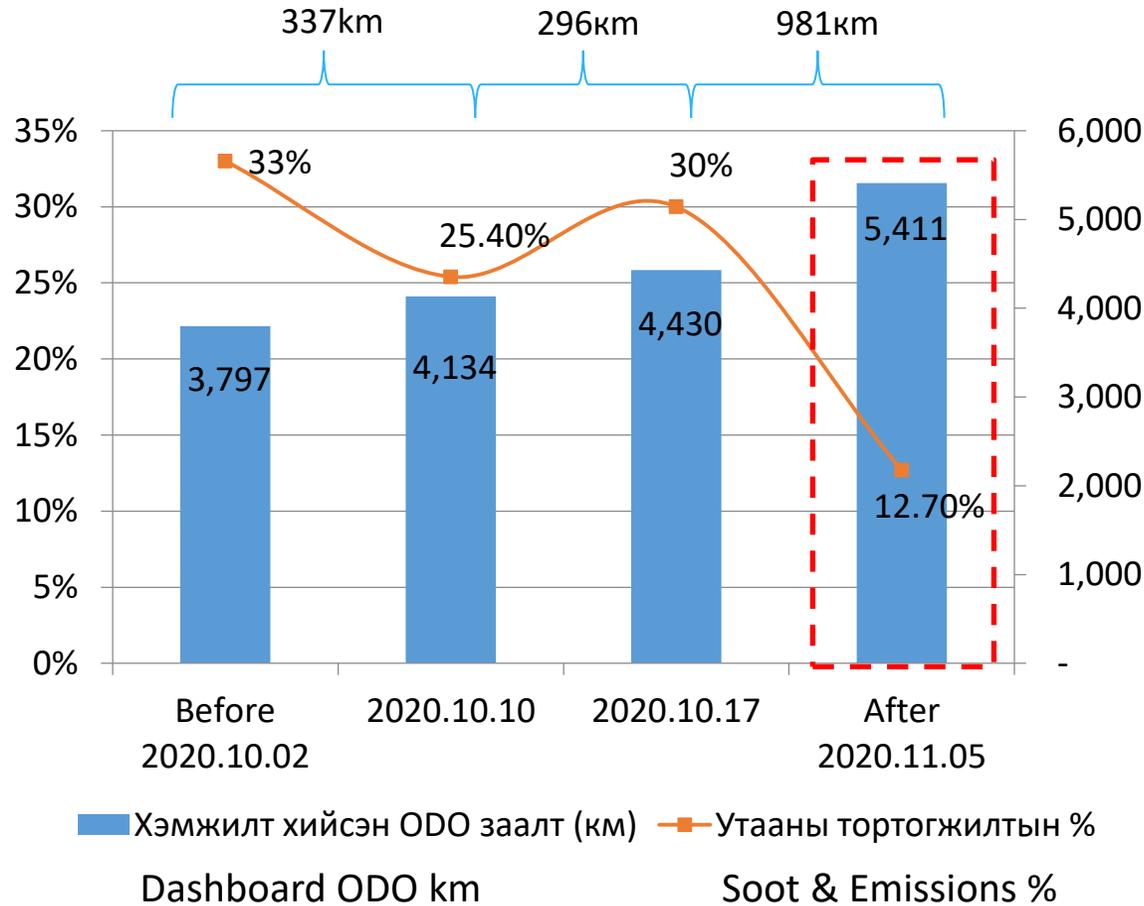


The ECO # 4 is illustrated and installed in the middle of the fuel line from the fuel filter to the apparatus.

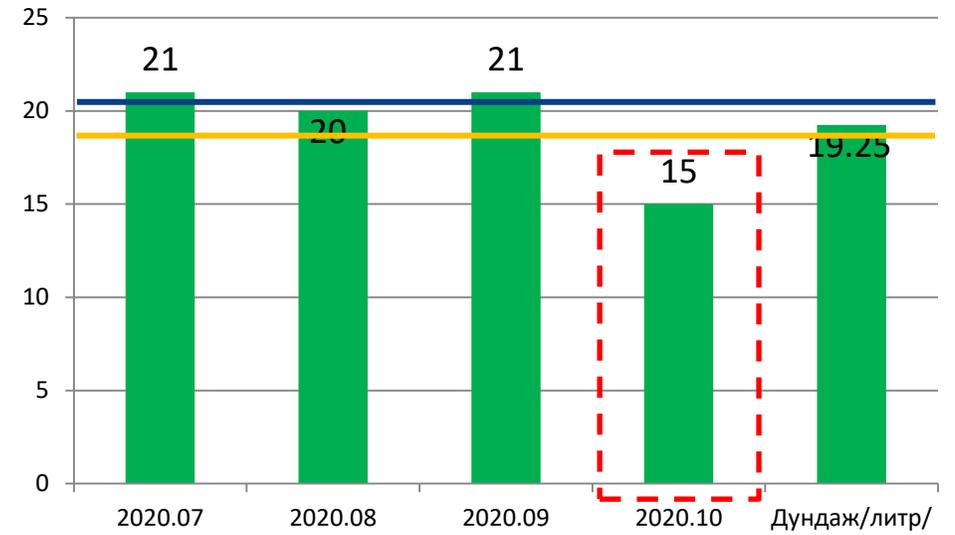
ISUZU 95-16 TEST RESULT



ECO Mine Systems



Fuel Consumption



■ 95-16 УАК түлш зарцуулалт дундаж (100км/л)-т
Average fuel consumption (100km/L) monthly

- Fuel consumption in summer season: 20 L per 100km
- Fuel consumption in winter season: 22 L per 100km

Please see the result from the next page

ISUZU 95-16 YAK Emissions Test Result



ECO Mine Systems

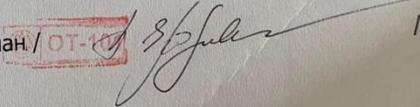
Before 2020.10.05

ХЭМЖИЛТИЙН ХУУДАС

Улсын дугаар: **9516YAK** Хэмжилт хийсэн: **2020-10-01 17:44**
Арлын дугаар: **JAANPR75KL7101447** Хэвлэсэн: **2020-10-05 17:16**

----- ДИЗЕЛЬ УТАА -----

Тортогжилт (%)	К-утга	Хөдөлгүүрийн эргэлт
33.9	0.96	0.0

Хэмжилт хийсэн: РС101 (Баянзүрх) салбарын
инженер Б.Ербулан / 

After 2020.11.05

ХЭМЖИЛТИЙН ХУУДАС

Улсын дугаар: **9516YAK** Хэмжилт хийсэн: **2020-11-05 09:22**
Арлын дугаар: **JAANPR75KL7101447** Хэвлэсэн: **2020-11-05 09:35**

----- ДИЗЕЛЬ УТАА -----

Тортогжилт (%)	К-утга	Хөдөлгүүрийн эргэлт
12.7	0.36	0.0

Хэмжилт хийсэн: РС101 (Баянзүрх) салбарын
инженер Э.Мөнхбат / 

Emissions reduced from 33.9% to 12.7%

Emissions has been tested jointly at the National Center for
Transportation of Mongolia

ISUZU 95-16 УАК ДҮГНЭЛТ



- **ISUZU 95-16 УАК is a new truck that was bought in July 2020**

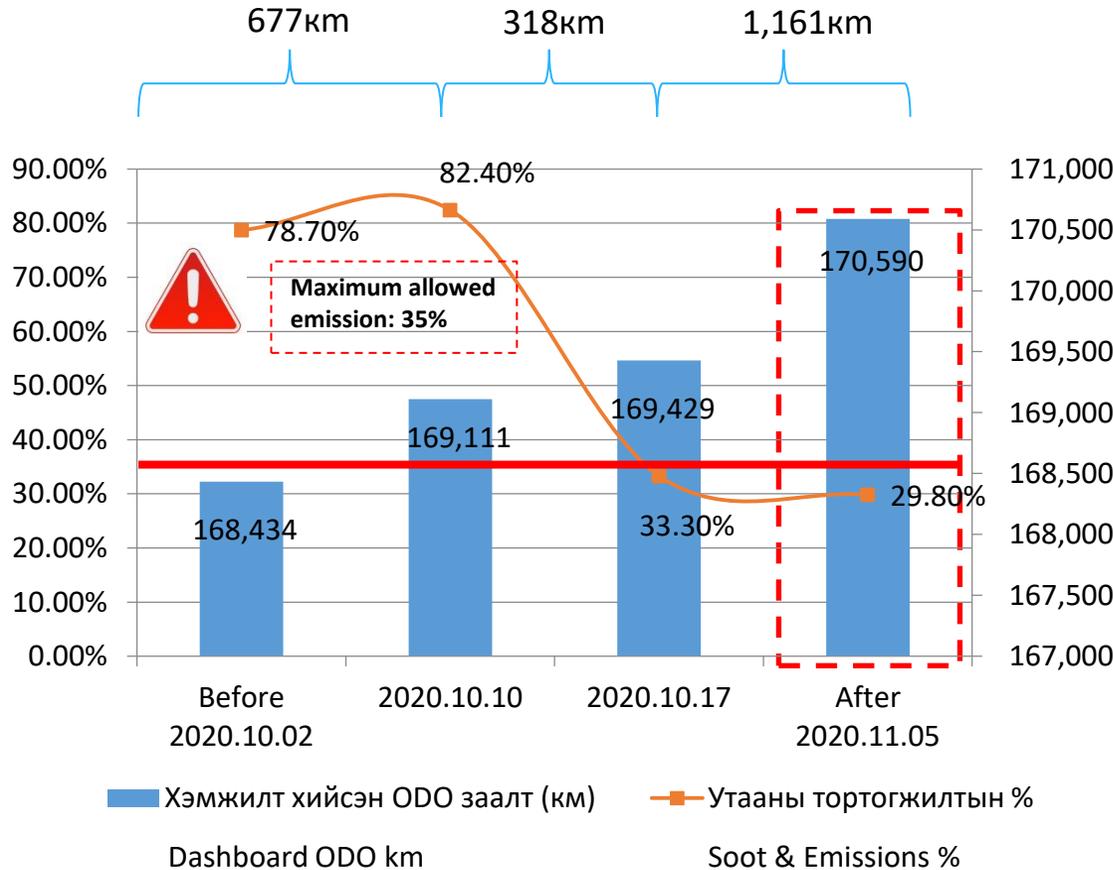
- **Fuel Consumption result:**
 - ✓ After installing ECO#4 and driving for 1 month, this truck has saved **5 liters** per 100km's and about **25%** reduction in fuel consumption. Also, MCS Coca Cola recognized that it saved more than 25% as it was compared to the Summer season fuel consumption report as it was -5 Celsius degrees or higher in the month of October.

- **Emissions Tests Result:**
 - ✓ After installing ECO#4 and driving for 1 month, we have jointly tested the emissions 4 times by accredited laboratory in Mongolia and the emissions reduced from 33% to 12.7% and about 61.5% reduction.

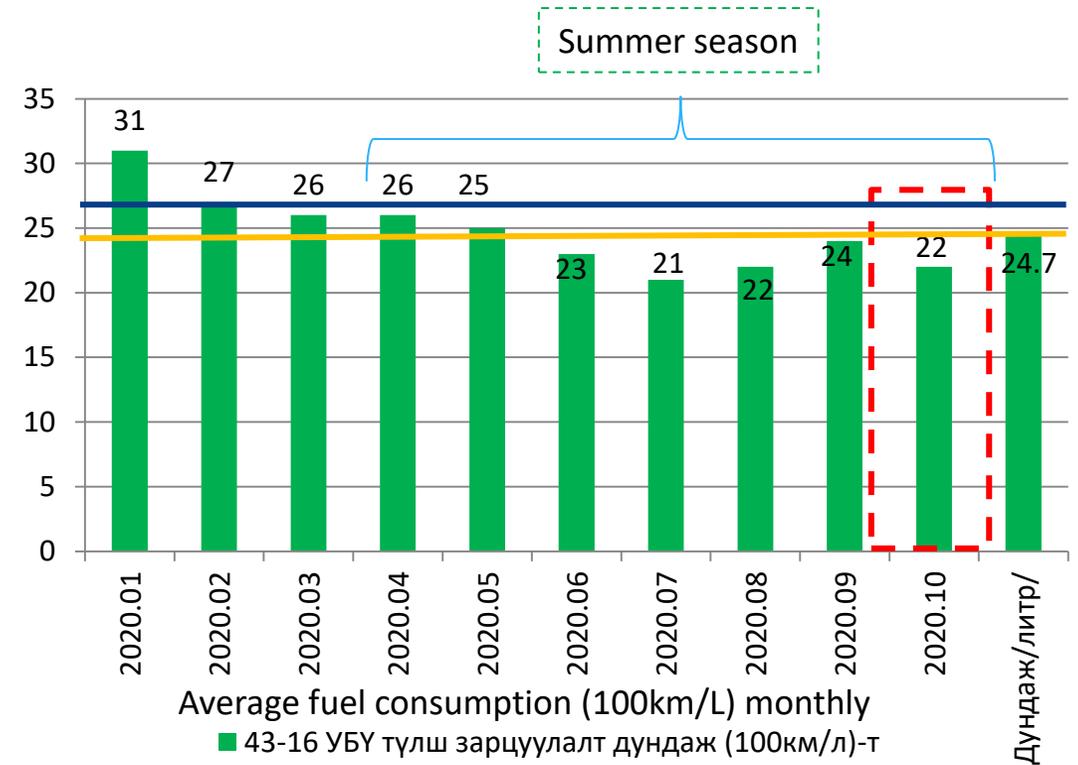
ISUZU 43-16 УБҮ TEST RESULT



ECO Mine Systems



Fuel Consumption



- Fuel consumption in summer season: 24 L per 100km
- Fuel consumption in winter season: 26 L per 100km

Please see the result from the next page

ISUZU 43-16 УБҮ Emissions Test Result



ECO Mine Systems

Before 2020.10.05

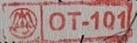
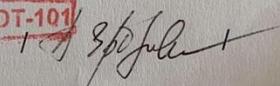
After 2020.11.05

ХЭМЖИЛТИЙН ХУУДАС

Улсын дугаар: **4316УБҮ** Хэмжилт хийсэн: **2020-10-01 18:15**
Арлын дугаар: **FK617HA10030** Хэвлэсэн: **2020-10-05 17:25**

----- ДИЗЕЛЬ УТАА -----

Тортогжилт (%)	К-утга	Хөдөлгүүрийн эргэлт
78.7	3.59	0.0

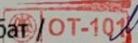
Хэмжилт хийсэн: РС101 (Баянзүрх) салбарын
инженер Б.Ербулан  

ХЭМЖИЛТИЙН ХУУДАС

Улсын дугаар: **4316УБҮ** Хэмжилт хийсэн: **2020-11-05 09:08**
Арлын дугаар: **FK617HA10030** Хэвлэсэн: **2020-11-05 09:38**

----- ДИЗЕЛЬ УТАА -----

Тортогжилт (%)	К-утга	Хөдөлгүүрийн эргэлт
29.8	1.2	0.0

Хэмжилт хийсэн: РС101 (Баянзүрх) салбарын
инженер Э.Мөнхбат  

Emissions reduced from 78.7% to 29.8%

Emissions has been tested jointly at the National Center for
Transportation of Mongolia

FUSO 43-16 УБҮ ДҮГНЭЛТ



- Mitsubishi Fuso 43-16 УБҮ was imported in June 2011 and has been driven for 9 years in Mongolia.

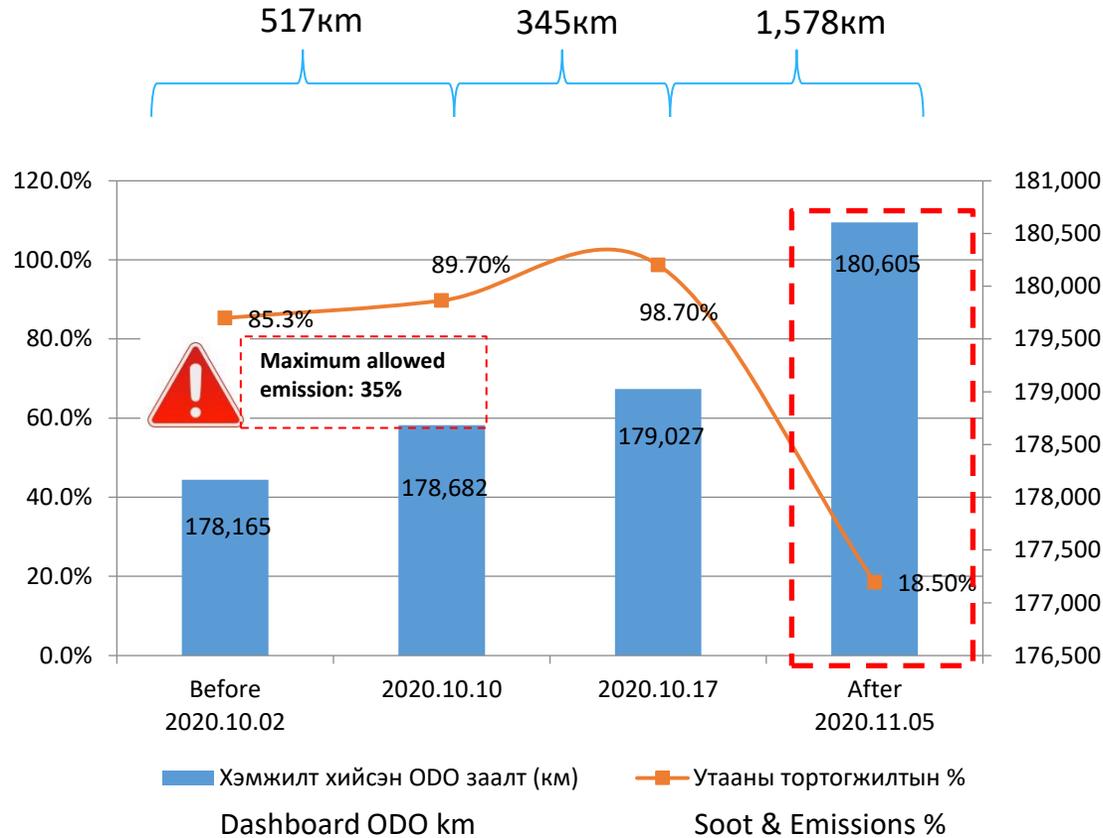
- **Fuel Consumption Result:**
 - ✓ After installing ECO#4 and driving for 1 month, this truck has saved 2 liters per 100km's and about 8.3% reduction in fuel consumption. Also, MCS Coca Cola recognized that it saved more than 8.3% as it was compared to the Summer season fuel consumption report as it was -5 Celsius degrees or higher in the month of October. The reason this truck saved less, compared to other trucks is due to the age of the truck and it needed to replace all injectors (Injectors were clogged and worn out).

- **Emissions Tests Result:**
 - ✓ After installing ECO#4 and driving for 1 month, we have jointly tested the emissions 4 times by accredited laboratory in Mongolia and the emissions reduced from 78.7% to 29.8% and about 62.1% reduction.

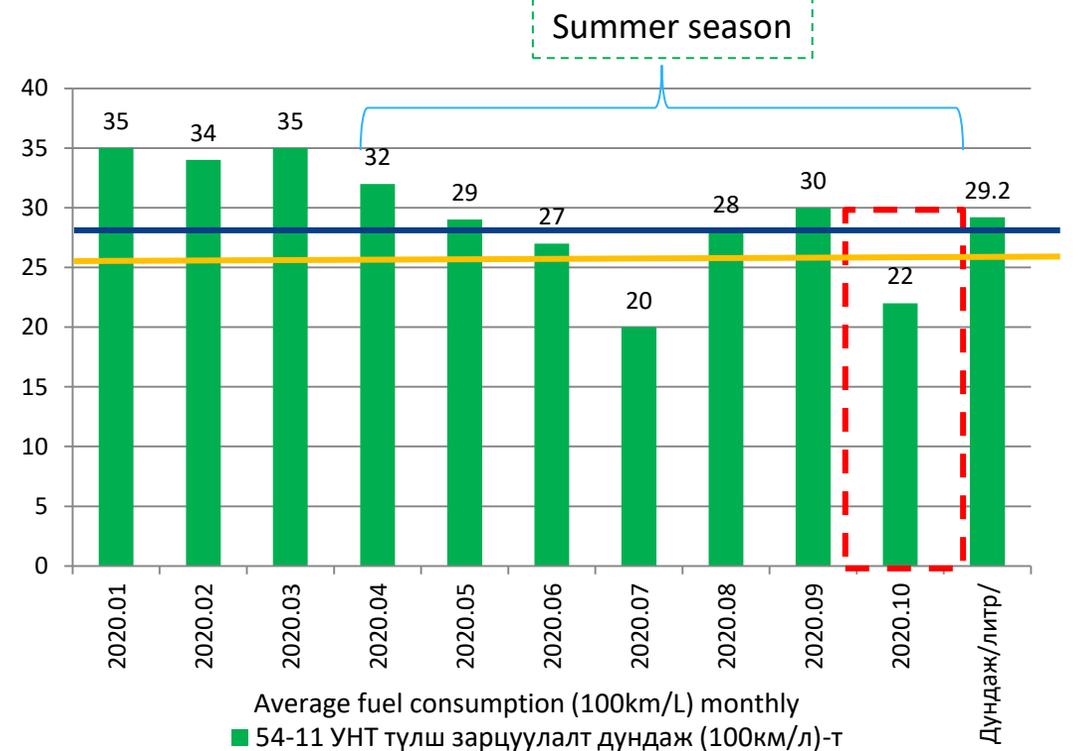
HYUNDAI 54-11 YHT Test result



ECO Mine Systems



Fuel Consumption



Please see the result from the next page

HYUNDAI 54-11 УНТ Emissions Test Result



ECO Mine Systems

Before 2020.10.05

After 2020.11.05

ХЭМЖИЛТИЙН ХУУДАС

Улсын дугаар: **5411УНТ** Хэмжилт хийсэн: **2020-10-01 18:01**
Арлын дугаар: **KMFLA19RPCC064889** Хэвлэсэн: **2020-10-05 17:20**

ДИЗЕЛЬ УТАА -----

Тортогжилт (%)	К-утга	Хөдөлгүүрийн эргэлт
85.3	4.48	0.0

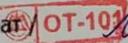
Хэмжилт хийсэн: РС101 (Баянзүрх) салбарын
инженер Б.Ербулак  *[Signature]*

ХЭМЖИЛТИЙН ХУУДАС

Улсын дугаар: **5411УНТ** Хэмжилт хийсэн: **2020-11-05 09:14**
Арлын дугаар: **KMFLA19RPCC064889** Хэвлэсэн: **2020-11-05 09:40**

ДИЗЕЛЬ УТАА -----

Тортогжилт (%)	К-утга	Хөдөлгүүрийн эргэлт
18.5	0.54	0.0

Хэмжилт хийсэн: РС101 (Баянзүрх) салбарын
инженер Э.Мөнхбат  *[Signature]*

Emissions has been tested jointly at the National Center for
Transportation of Mongolia

HYUNDAI 54-11 YHT Test Result



ECO Mine Svstems

- Hyundai 54-11 YHT was imported to Mongolia in May 2012 and has been driven in Mongolia for 8 years.
- **Fuel Consumption Result:**
 - ✓ After installing ECO#4 and driving for 1 month, this truck has saved 8 liters per 100km's and about 26.7% reduction in fuel consumption. Also, MCS Coca Cola recognized that it saved more than 26.7% as it was compared to the Summer season fuel consumption report as it was -5 Celsius degrees or higher in the month of October. The reason this truck saved less, compared to other trucks is due to the age of the truck and it needed to replace all injectors (Injectors were clogged and worn out).
- **Emissions Tests Result:**
 - ✓ After installing ECO#4 and driving for 1 month, we have jointly tested the emissions 4 times by accredited laboratory in Mongolia and the emissions reduced from 85.3% to 18.5%% and about 78.3% reduction.

ROI(Return of Investment):



ECO Mine Systems

Vehicle type	Avg km per month	Saving per 100km (Liters)	Fuel Saving per month (Liters)	Түлшний үнэ	Saving per month (USD)	Saving per year (USD)
Hyundai 54-11	2,200km	8L	176	0.7\$	123.2 \$	1478.4

- Initial investment cost is low and Customers globally return their investment within 3-4 months only on fuel consumption.
- ECO units don't need maintenance and can be replaced to other vehicles in case of fleet changes.
- 5 year Manufacturer's warranty and expected life of the ECO systems is 20 years.

EXECUTIVE SUMMARY



ECO Mine Systems

- Technology works on simple principle of making the fuel more combustible by converting complex fuel molecules into smaller molecules while increasing REED vapor pressure. This will extend the life of the engine, injectors, actuators, and DPF filters and reduce maintenance costs (TCO / Total cost of ownership).
- On the other hand, as the fuel passes through the ECO device, the disordered hydrocarbon molecules in the fuel break down into smaller and more fragmented structures. As a result, the fuel burns completely, and the engine capacity increases. The engine noise gets softer.
- The longer you drive with ECO Systems (1,000-3,000km), the better the result you get.

Contacts



ECO Mine Systems

Please don't hesitate to contact us if you have any questions:

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Social: www.facebook.com/mn/ecominesystemsllc

#fuel cost reduction, #emissions reduction, #maintenance cost reductions, #proven