

## Lubricant Additives for Diesel Locomotive Test Result Confirmation

### ■ Test Discription

- Locomotive Number. : #7441
- Locomotive Moel type : GT26CW-2
- Locomotive Manufacturer : HYUNDAI MOBIS
- Locomotive Manufactured Year : 1997
- Test Period : 29/08/2011 ~ 29/11/2011 (3Months)
- Running Areat for Test : Youngju ~ Masan
- Additives injection Ration : Engine Oil 900ℓ : Additives 20ℓ (45 : 1)
- Mileage (km) : 43,620km
- Supervising Team : Kyeong-Buk Section HQ

### ■ Test Result

- Measurment result in each article

Measure Article	Basic Data	Before Test	After Test	Remart
Total mileage	43,620km			
Engine Oil Consumption	100km/5ℓ/2,181ℓ	100km/5ℓ/2,181ℓ	100km/3.35ℓ/1,460ℓ	Reduction: 5ℓ to 3.35ℓ/100km
Traction Power		DC 800V & 2,430A Conversed HP : 3,114	DC 800V & 2,430A Conversed HP : 3,114	HP Improvement : 3,261 - 3,114 =147HP

\* Refer to attached "Conversion data of Traction power" according to outside temperature

- **Engine Oil : About 1.65ℓ per 100km reductionin**
- **Horse Power : About 147HP Improvement**

5th. December. 2011

Investigator

KORAIL Locomotive Technology Dept.

Nano Technology Inc.