

# Oil Analysis C-13 Diesel Truck oil analysis results 60 to 70% of harmful Soot reduction and prevention.

Written by Dan

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## Diesel Truck oil analysis results 60 to 70% of harmful Soot reduction and prevention. ✓

This test was run by Coastal Blending & Packaging, a Lubrication Analysis Lab in Saint John, New Brunswick. For this test, a before and after oil sample was taken. The Semi-Truck with a Caterpillar C-13 engine, odometer reading 1,025,000 kilometers, after change of oil and filter 25,000 km of highway the 1st sample is taken and the lab reports notify the results in order to determine if it's needs to be changed and and condition of the engine, as you will see below on the below analysis report the soot level reports 0.46 metal counts are normal so the oil is not nesenary as the oil analysis shows his oil green light, using a Kleen Oil By-pass filter and following recomendation only the By-pass filter is changed at every 25,000 km. The 2nd Oil Anaylsis at 50,000 km show soot levels of 0.68 a 48% increse, the By-pass filter was changed and then applied MoreMPG and then driven for another 25,000 km, 3rd Analysis report at a total of 75,000 km on the oil Soot levels went down to 0.27 displayed a 60% reduction. Take Notice of the drop in soot's and metal wear, these numbers do not usualy go down they go up, facts that MoreMPG reduces emissions, wear and tear and keeping the engine clean.

Lubricant Analysis Report

SER TRANSPORTATION

Equip: CAT Model: C13  
Equip ID: 14127 Type: Type: CAT-ENGINE  
Serial: D664239  
Comp ID: 14127-C

COASTAL Blending & Packaging  
Saint John NB CAN. 456  
1-866-203-7730  
1-203-569-7157

Sample # 2011011231 Lubricant PREM 15W40

Date Received 20/01/2011 HOURS ON OIL 125000  
Date Sampled 19/01/2011 METER READING 1025000

Change oil, resample at regular interval to monitor trends. From right to left

Red Line = Oil Change Green = MoreMPG Added 4th 3rd 2nd 1st

Test Date	Methods	18/01/2011	09/12/2010	07/12/2010	21/09/2010
<b>Contamination</b>					
Water	CIP Mod	Neg	Neg	Neg	Neg
Karl Fischer	D6304				
ISO Cont 6/24	ISO 4406				
Fuel	CIP Mod	Neg	Trace	Neg	Neg
Fuel (H)	CIP Mod				
Glycol	CIP Mod	Neg	Neg	Neg	Neg
BS&W	CIP Mod				
Soot	CIP Mod	0.27	0.65	0.68	0.46
Silica	07260	304.70	550.00	4.90	5.10
Potassium	07260	0.00	0.00	0.00	0.00
Sodium	07260	4.30	5.30	5.20	4.40
<b>Condition</b>					
Visc@40C	D461		123.60		
Visc@100C	D461	15.00	15.20	14.70	14.80
Visc Index	D3270				15.10
TAN	D664	5.37	6.93	0.00	6.70
TBN	D2896	4.10	7.70	8.40	10.20
<b>Wear</b>					
Iron	07260	50.10	51.60	52.00	28.80
Nickel	07260	0.60	0.00	0.00	0.50
Chromium	07260	1.90	2.30	2.00	1.30
Ti	07260	1.00	1.00	0.60	0.90
Copper	07260	15.10	11.10	11.70	9.10
Lead	07260	6.40	7.20	2.40	1.60
Silver	07260	0.10	0.00	0.10	0.00
Aluminum	07260	2.20	2.90	2.40	2.70
Molybdenum	07260	1.80	2.80	4.10	3.80

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