

NATIONAL TRANSPORTATION SAFETY BOARD  
 505 S. 330th Street  
 98003, Federal Way  
 United States  
 998707005

Attention of : Mr. E Simpson  
 Your reference : N1111X

**Analysis Report**

Report number : **13091/00010056.0/L/16** Date of sampling : 05-22-2016  
 Main Object : N1111X  
 Report Date : 05-31-2016 Date received : 05-31-2016  
 Date of issue : 06-01-2016 Date completed : 05-31-2016  
 Sample object : N1111X Sample number : 3738878  
 Sample type : Submitted  
 Sample submitted as : Gasoline  
 Marked : Sample ID: N1111X - Left Tank

NAME	METHOD	UNIT	RESULT
Vapour Pressure	ASTM D 5191		
Total Vapour Pressure		psi	7.80
ASTM Eq Calculation		psi	6.98
Distillation	ASTM D 86		
Initial boiling point		°F	108.0
5% Evaporated		°F	133.2
10% Evaporated		°F	138.4
15% Evaporated		°F	142.1
20% Evaporated		°F	145.6
30% Evaporated		°F	151.2
40% Evaporated		°F	169.1
50% Evaporated		°F	211.6
60% Evaporated		°F	229.0
70% Evaporated		°F	245.3
80% Evaporated		°F	269.8
90% Evaporated		°F	313.5
95% Evaporated		°F	348.3
Final boiling point		°F	403.8
Recovery		vol %	98.5
Residue		vol %	1.0
Loss		vol %	0.5
Temperature-V/L Values	ASTM D 4814 App. X2		
V/L ratio @ 20		°F	149.6
Oxygenates	ASTM D 4815		
Methanol		vol %	<0.10
Ethanol		vol %	9.37
Isopropanol		vol %	<0.10
tert-Butanol		vol %	<0.10
n-Propanol		vol %	<0.10
methyl tert-butyl ether		vol %	<0.10
diisopropyl ether		vol %	<0.10
Isobutanol		vol %	<0.10

Uncertainties apply in the evaluation of the test results. Where available and for convenience purposes, the tested sample has been checked for compliance with supplied specifications, without accepting any liability. In case of dispute or uncertainty, we refer to the interpretation of test results as defined in ASTM D3244, IP 367 or ISO 4259.

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NAME	METHOD	UNIT	RESULT
ethyl tert-butyl ether		vol %	<0.10
tert-Pentanol		vol %	<0.10
n-Butanol		vol %	<0.10
tert-amyl methyl ether		vol %	<0.10
sec-Butanol		vol %	<0.10
Total Oxygen		vol %	3.50
Water Karl Fischer	ASTM D 6304		
Water Karl Fischer - Procedure A		mass %	0.15
Research Octane Number (RON)	ASTM D 2699	-	95.8

Signed by: Francine Hanby - Mgr II Laboratory  
Issued by: Saybolt LP  
Place and date of issue: Carson - 06-01-2016

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