



PANAIR LABORATORY, INC.

4301 N.W.72 AVE., MIAMI, FL 33166 (305) 594-9055 FAX (305) 477-9137

GASOLINE ANALYSIS REPORT

LABORATORY NO. 12815G
AWB NO. 378-0349 0104
CUSTOMER J & R Services
TEST COMPLETED 6/10/15
SAMPLED FROM COTT Truck #120215

ORIGIN Grand Cayman	FUEL TYPE Mogas	CUSTOMER J & R Services
DATE SAMPLED 5/20/15	RECEIVED AT LAB 6/8/15	TEST COMPLETED 6/10/15
REFINER	REFINER'S DESIGNATION Mogas	SAMPLED FROM COTT Truck #120215

THIS REPORT RELATES ONLY TO THE SAMPLE TESTED AND DOES NOT GUARANTEE THE BULK OF THE MATERIAL TO BE OF EQUAL QUALITY.

ASTM (D 86)

API GRAVITY @ 60 (D4052)	<u>49.60</u>
SPECIFIC GRAVITY @ 60 F (CONV.)	<u>0.7813</u>
APPEARANCE (D4176)	_____
OLBFINS, % VOL. (D 1319)	_____
ODOR	_____
COLOR VISUAL	_____
CORROSION, COPPER STRIP (D 130)	<u>1a</u>
DOCTOR TEST (IP 30)	_____
EXISTENT GUM, MG/100 ML (D 381/ IP 131)	<u>2</u>
WASHED GUM, MG/100 ML (D 381)	<u><1</u>
FREEZE POINT, C (D 2386)	_____
VAPOR LOCK INDEX (D323)	_____
DRIVEABILITY (D4814)	<u>628</u>
OCTANE NUMBER, MOTOR (D 2700)	<u>85.7</u>
OCTANE SENSITIVITY (RON - MON)	_____
OCTANE NUMBER, RESEARCH (D 2699)	<u>97.7</u>
ANTI-KNOCK INDEX (R+M/2)	<u>91.7</u>
OXIDATION STABILITY @ 100 C, MINUTES (D 525)	_____
PARTICULATE MATTER, MG/L, (D 5452)	<u>0.91</u>
FILTER MEMBRANE COLOR RATING (D 5452)	<u>B-1</u>
THRUPUT, LITERS	<u>0.868</u>
PHOSPHOROUS CONTENT, MG/L (D 3231)	_____
POTENTIAL GUM, MG/100 ML (D 873)	_____
MANGANESE, mg/L (D 3831)	<u>0.1</u>
SULFUR, mg / kg (ppm) (D 2622)	_____
TETRAETHYLLLEAD CONTENT, g/U.S. gal. (D 3237/ IP 362)	_____
LEAD CONTENT g/Liter (CONV.)	_____
SILVER CORROSION (D4814 annex)	_____
VAPOR PRESSURE (LB REID/kPa) (D 5191)	<u>6.24/43.0</u>


DISTILLATION	C
IBP	<u>38.6</u>
10% Evaporated	<u>68.0</u>
50% Evap.	<u>119.5</u>
90% Evap.	<u>167.2</u>
END POINT	<u>203.6</u>
RECOVERY	<u>98.8</u> %
RESIDUE	<u>1.0</u> %
LOSS	<u>0.2</u> %

X

Product complies with ASTM D4814 for Mogas test results shown if box is checked

EXCEPT DRIVABILITY

Ethanol % Vol. (GM) 0


 CARL E. JOHNSON, PRESIDENT
 PAL-0238 Issued 10-21-13, Revision 1



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FUEL OIL ANALYSIS

LABORATORY NO.

2693F

AWB NO.

378-0349 0104

ORIGIN Grand Cayman	FUEL TYPE Diesel	CUSTOMER J & R Services
DATE SAMPLED 5/20/15	RECEIVED AT LAB 6/8/15	TEST COMPLETED 6/14/15
REFINER	REFINER'S DESIGNATION ULSD	SAMPLED FROM COTT Truck #120215

This report relates to the sample tested and does not guarantee the bulk of the material to be of equal

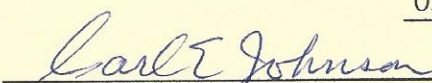
DISTILLATION (D 86)

APPEARANCE, VISUAL	_____
ASH, % WGT. (D 482)	_____
ASPHALTENES, % WGT. (IP 143)	_____
CARBON RESIDUE CONRADSON (ON 10% B), WGT. (D 189)	_____
CARBON RESIDUE RAMSBOTTOM (ON 10% B), WGT. (D524)	_____
CETANE INDEX (D 976)	_____
CETANE NUMBER (D 613)	47.2
CLOUD POINT F/C (D 2500)	_____
COPPER CORROSION (3 HRS 122 F/ 212 F) (D 130)	_____
COLOR, ASTM (D 1500)	_____
FLASH POINT PENSKY-MARTENS F /C (D 93)	_____
NET CALORIFIC VALUE, BTU/LB (D240)	_____
NET CALORIFIC VALUE, BTU/ US gal.,	_____
GRAVITY, API @ 60 F (D 4052)	36.87
SPECIFIC GRAVITY @ 60 F/ 60 F	0.8404
DENSITY @ 15 C	0.8400
POUNDS PER GALLON @ 60 F	6.98
NEUTRALIZATION NUMBER mg KOH/gm (D 974)	_____
OXIDATION STABILITY, mg/100 ml. (D 2274)	_____
POUR POINT F /C(D 97)	_____
SEDIMENT BY EXTRACTION, % MASS (D 473)	_____
SEDIMENT BY HOT FILTRATION, % MASS (IP 375)	_____
SULFUR, % WGT., XRAY (D 4294)	_____
SULFUR, mg / Kg (ppm), XRAY (D 2622)	9 ppm
VISCOSITY, KINEMATIC @ 50 C mm ² /sec. (D 445)	2.056
VISCOSITY, KINEMATIC @ 40C mm ² /sec. (D 445)	_____
WATER BY DISTILLATION, % WGT. (D 95)	_____
WATER AND SEDIMENT, % VOL. (D 1796)	_____
WATER AND SEDIMENT, % VOL (D 2709)	<0.005
SUSPENDED SEDIMENT mg/100 ml. (D6217)	0.14
THRUPUT, LITERS	0.840

% RECOVERY	C
IBP	152.8
10	196.4
20	218.1
30	236.8
40	251.4
50	264.5
60	278.1
70	291.3
80	305.4
90	324.4
95	340.3
END POINT	348.8
RECOVERY	98.0 %
RESIDUE	1.4 %
LOSS	0.6 %

Lubricity, HFRR, (D6079)

WEAR SCAR DIAMETER, micron	_____
MAJOR AXIS, um	_____
MINOR AXIS, um	_____
TEST DATE MM/DD/YR	_____
Nitrogen, % wgt. (Combustion)	_____
Hydrogen, % wgt. (Combustion)	_____
BioDiesel Content, % vol. (prEN 14078, mod.) mod.= lab-blended oil standards	_____
Aromatics, % vol. (D1319)	_____
Electrical Conductivity, (D2624), ps/m @ Centigrade	_____
Particle Count, microns..... Particles/ml	_____
> or = 4	_____
> or = 6	_____
> or = 14	_____
> or = 21	_____
> or = 25	_____
> or = 30	_____
ISO Code >= 4/6/14 (ISO 4406)	_____


 CARL E. JOHNSON, PRESIDENT
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