





























Step #2





Step #2













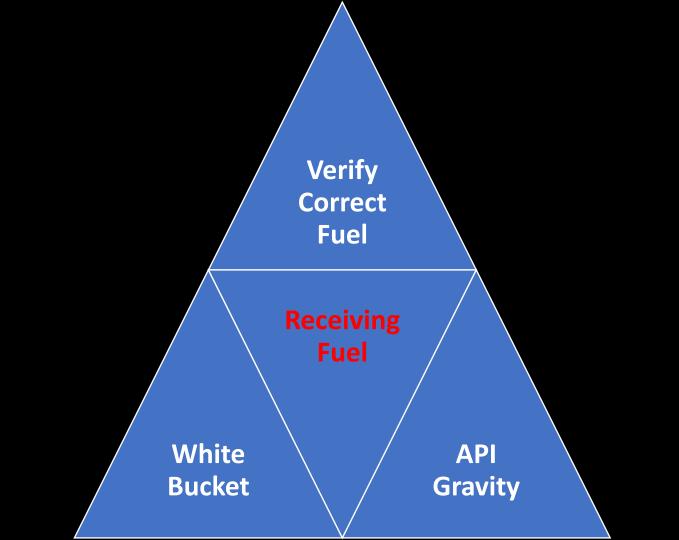












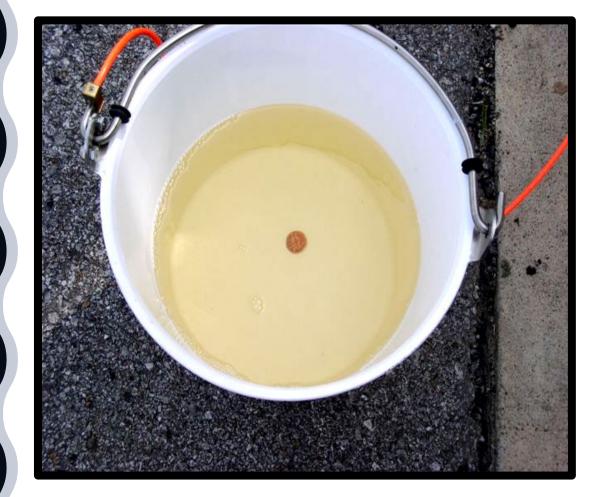
White Bucket

Is there Water in Fuel?

Yes

Dissolved Water (Water in Solution)

Free Water (Undissolved Water)



Rating a White Bucket Sample

Solid Contaminant Rating

- 1 Clear
- 2 Slight particulate matter
- 3 Particulate matter
- 4 Dirty

Moisture Content Rating

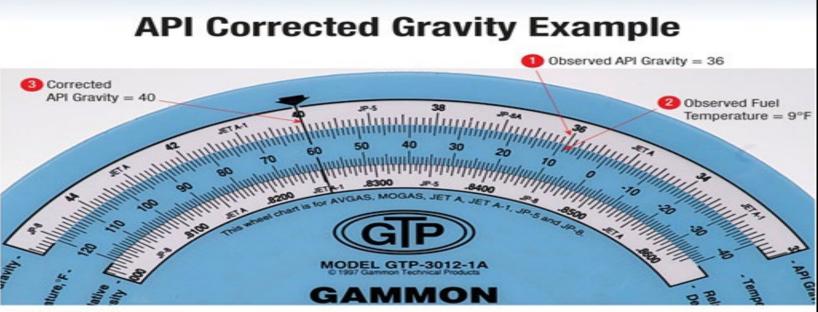
- A Bright
- B Hazy
- C Cloudy
- D Wet (free water)
- E Surfactants

API Gravity

Measure the gravity (density) of fuel; a significant change may indicate contamination by another product

Verify that the corrected API Gravity is within +/-1° API of the BOL API Gravity





API Gravity Instructions

- Align the Observed API Gravity reading from the hydrometer (outer white ring)
 with the Observed Fuel Temperature reading from the thermometer (blue ring).
- Read the Corrected API Gravity at the 60°F line.

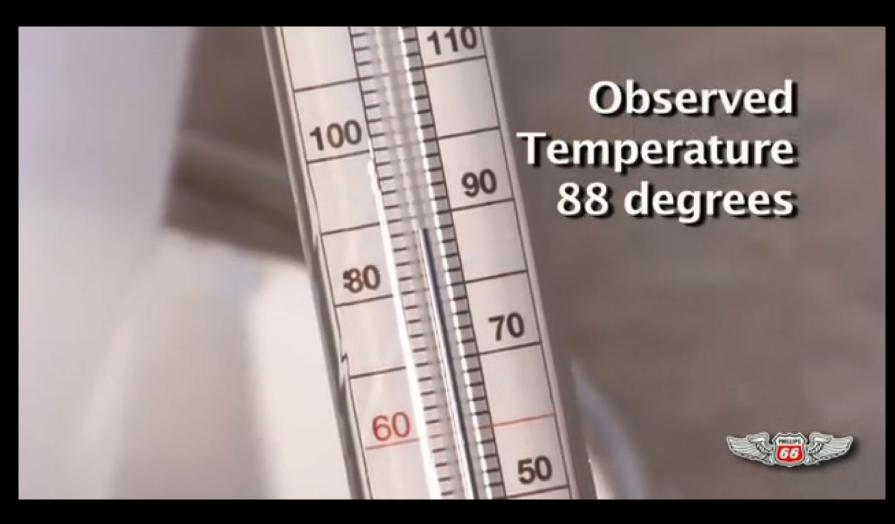
Fuel Receipts

- Record the Observed API Gravity, Observed Fuel Temperature and Corrected API Gravity.
- Prior to accepting the load, verify the Corrected API Gravity is within +/- 1° API of the value reported on the Bill
 of Lading

Observed API gravity 46

46





Observed API Gravity was 46 and the Observed Temperature was 88 degrees

tor AVGAS, MOGAS

Corrected to 43.5 at 60 degrees

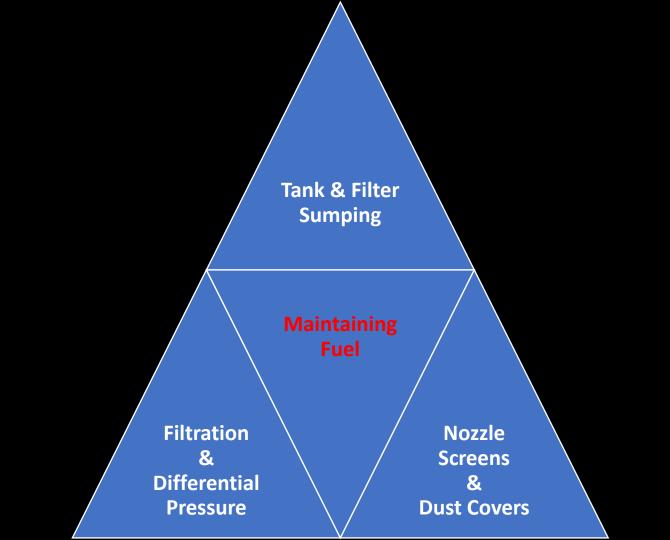
Compare your Corrected API Gravity of 43.5 to the Bill of Lading API Gravity of 43.2

833	assigns.						sell and his
GRS	NET	ADD/BLEND	MEAS	GRAVITY	TEMP/PSI	MTR	OCTANE
3000	3014	4 N	GAL	43.2	51.6	61	.0
2001	2009	4 N	GAL	43.2	52.3	61	.0
3002	3014	4 N	GAL	43.2	52.0	62	.0
Co	mpan	ed to 4	13.2	on Bi	ill of L	ad	ina

Receipt of Fuel Toolboxes



A simple fix that can help you avoid a costly mistake... "Label and Secure "Your" Fill Points"

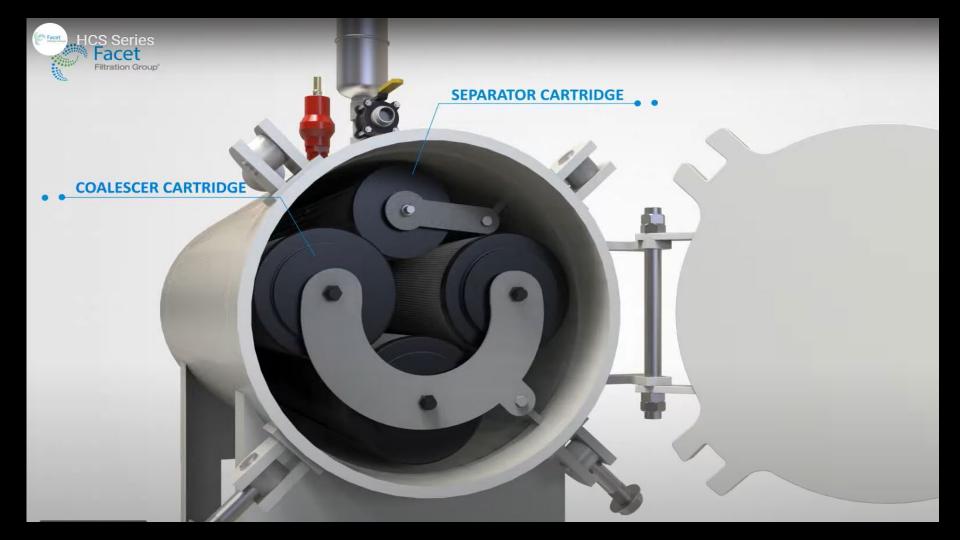


White Bucket

Tank & Filter Sumping?

- 1. Looking for Water & Particulates
- 2. Also, anything else that does not look normal
- 3. Clean, Dry, On Spec Fuel is the Goal
- 4. People are depending on you





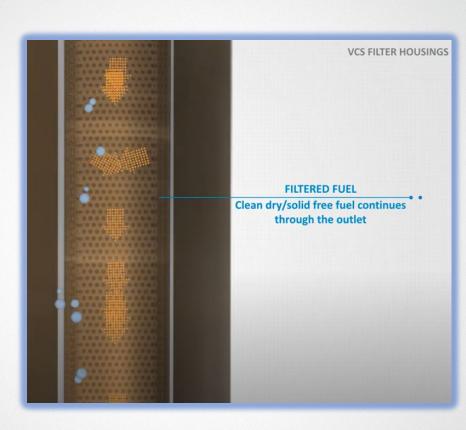
1st Stage – Coalescer Element

- Removes particulate contaminants
- Coalesce entrained free water into big water droplets
- Fuel flow direction "Inside to Out"



2nd Stage – Separator Element

- Repels previously coalesced water droplets
- Elements made of water repellent material (Teflon or Synthetic material)
- Fuel flow direction "Outside to In"



Are Your Filter Elements...

- Latest Edition
- Correct for Fuel Type

Coalescer / Separator (Two-Stage)

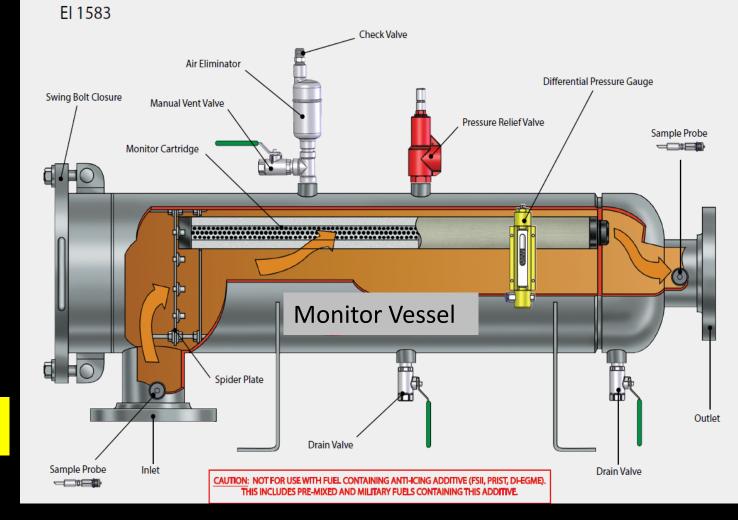
- ➢ EI 1581 − 6th Edition (Category C)
 - Jet A
 - Avgas 100LL
- ➢ EI 1581 6th Edition (Category M)
 - Jet A with FSII
 - Jet A
 - Avgas 100LL

Monitor (Water Absorbing)

EI 1583 7th Edition

> Jet A Avgas 100LL

Being Discontinued by Aviation Industry



Monitor

(Water Absorbing)

EI 1583 7th Edition

> Jet A Avgas 100LL

- Removes particulate contaminants
- Removes free water with a water absorbing material called SAP (Super Absorbent Polymer)
- Fuel flow direction "Outside to In"
- Should never be used with fuel containing FSII (Fuel System Icing Inhibitor)
 - Prist
 - Dice
 - DiEGME
 - Anti-Icing Additive

Being Discontinued by Aviation Industry

New Filter Technology replacing Monitors

Water Barrier Filtration by Velcon Filters

- Removes particulate contaminants
- Water droplets are blocked by hydrophobic material
- Fuel flow direction "Outside to In"
- Can be used with fuel containing FSII (Fuel System Icing Inhibitor)
 - Prist
 - Dice
 - DiEGME
 - Anti-Icing Additive

GAMMON GAUGETM Direct Reading Differential Pressure Gauge Why settle for less when you can have the tried and true original? Designed and Manufactured in the U.S.A.



GTP-534 ORIGINAL MODEL



GTP-8980 GAMMON GAUGE™ CONTROL SYSTEM Meets ATA-103 and IATA JIG Bulletin 58.



GTP-534-PB-PH PEAK-HOLD With Push Button TEST VALVE

The PEAK-HOLD feature registers the highest reading, locking the piston so the operator can see maximum differential pressure for the most recent fueling operation. Turning the large knob releases the piston so that it can return to zero.



GTP-534 PBF PUSH BUTTON IN FRONT (optional button position)



GTP-534 PB PUSH BUTTON 3-WAY TEST VALVE Do all your employees understand Differential Pressure and why it is so important?

Differential Pressure helps determine the condition of your Filter Elements



TEST VALVE





Does your FBO document Differential Pressure?

- During off-load of product from transport
- During transfer of product to the refueler
- During sell of product to aircraft





Good organization is the key to finding information when you need it.

- Aircraft Incident
- Customers Questions
- Audits



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Misfueling Prevention

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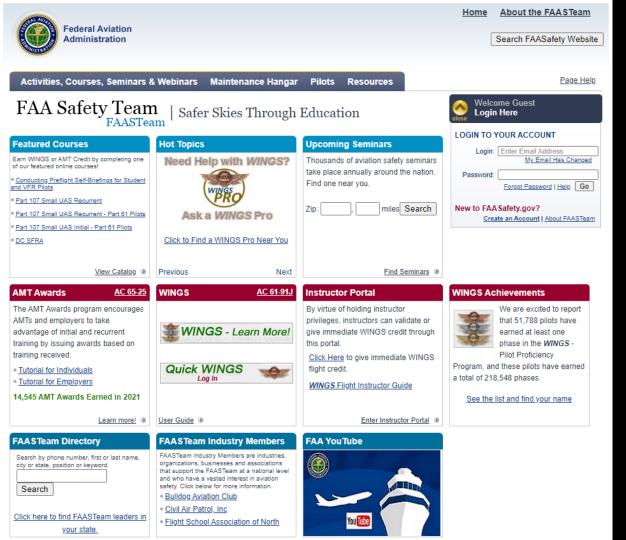
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General Aviation Misfueling Prevention is an awareness program for all aircraft refueling stakeholders. Whether you have completed the first generation program or not, you will want to be sure to update your training today! The new program refreshes the original content and addresses new misfueling risks associated with unleaded avgas and the introduction of an additional grade of fuel at airports Misfueling is preventable if we all work together!



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