

Major insurance claims arising out of joint venture/third party oil refining, transportation and storage operations.

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- Consulting scientists, chemical analysts and surveyors.
- Deal with insurance claims that have a scientific nature.
- Personal speciality – claims arising in connection with bulk oil and chemicals.

Joint Venture Refining & Storage

- In last 10 years, shortage claims amounting to well over \$500,000,000 investigated.
- How have these claims arisen?
- What might be done to anticipate, prevent or minimise them?

Understanding Inventory

- Claims arose where oil was shipped into and out of installations in many operations over a period of time.
- The normal calculation of shortage:

$$\text{Input} - \text{Output} = \text{Shortage}$$

or, commonly,

$$\text{BL Quantity} - \text{Out-turn Quantity} = \text{Shortage}$$

does not apply

Understanding Inventory

- Instead the equation should be :

$$\text{Input} - (\text{Output} + \text{Inventory}) = \text{Shortage}$$

- Failure to understand and deal with this has led to some huge losses, demonstrated in the examples which follow.

Example 1 – Background

- A Trader supplied crude oil by VLCC to a small independent North American Refiner.
- Refiner was to pay for feedstocks by delivering back to the trader a percentage by volume of the feedstock supplied in petroleum products.
- Trader used independents to monitor inputs and outputs, but did not maintain a physical inventory check.

Example 1 – Planned Operation



90% yield for
Trader



Crude Oil processed in
Refinery

10% yield for
Refiner



Example 1 – Actual Operation

Crude oil delivered by Trader



88% yield for
Trader



2% yield
loss



10% yield for
Refiner



Example 1 – Actual Operation

Crude oil delivered by Trader



Yield for
Trader Further
Reduced



Further product illegally removed



2% yield
loss

10% yield for
Refiner



Example 1 – Results

- After 50 cargoes...
- Trader requested a Jet A-1 cargo. Refinery could not fulfil loading due to insufficient stocks
- Stocktake identified product shortage amounting to \$44,000,000 (2 full VLCC's of Feedstock) !
- Traders successfully claimed bulk of loss from Insurers

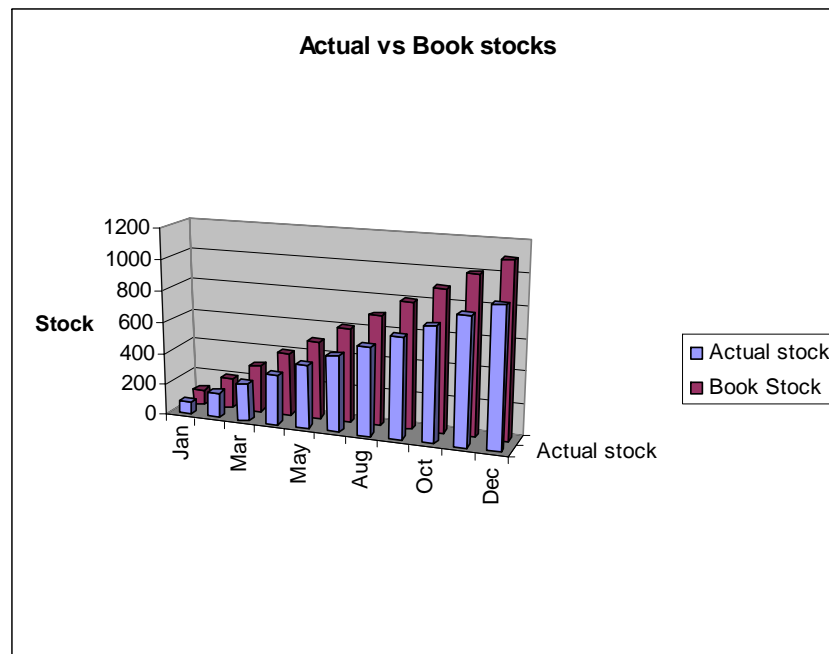
Example 2 – Background

- **Arose at a refinery in the Americas owned & operated by a small company that was primarily a trader.**
- **Insufficient storage capacity in refinery for planned (and actual) throughput.**
- **Additional storage capacity was hired at an adjacent independent storage terminal.**

Example 2 – Background

- **Super-Inspectors appointed to monitor inputs into storage terminal.**
- **Outputs were independently monitored.**
- **No inventory checks were made.**
- **But Super-Inspectors ALSO earned a bonus for minimising outturn losses, i.e. maximise out-turn**

Example 2 – Actual Operation



- Surveyors overstated outturns in order to earn bonuses.
- Book stocks continually increased against actual stocks.
- Poor yields caused further product losses.

Example 2 – Results

- **Trading losses caused financial difficulties.**
- **Banks withdrew credit facility.**
- **Stocktake identified product shortage amounting to \$30,000,000.**
- **Traders claimed against Insurers.**
- **Insurance claim was rejected.**

Example 3 - Background

- Major oil company owned and operated an island refinery in the Caribbean.
- Insufficient storage capacity in the refinery for the feedstocks required to support the planned production.
- Hired further tankage on a long term participatory basis at an adjacent independent storage facility

Example 3-Planned Operations



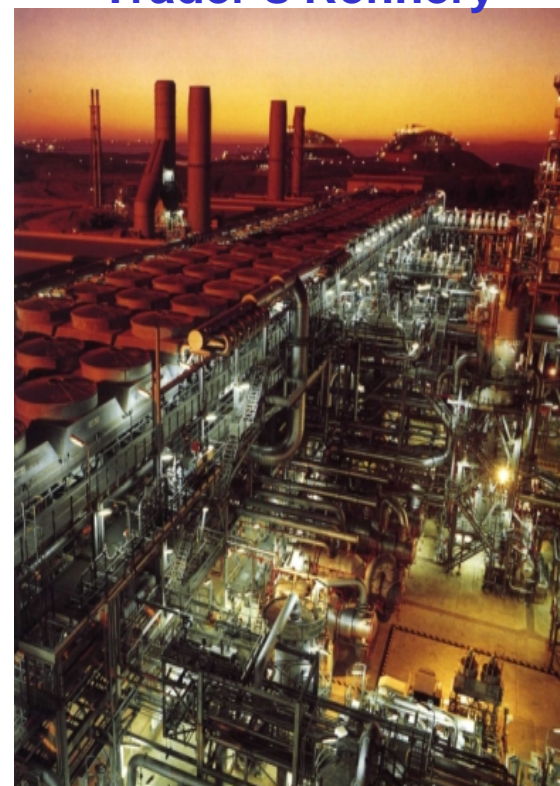
Allowed Outturn loss -
0.3% max



Crude oil stored at 3rd party
terminal

Transferred to
refinery -0.3%
max

Trader's Refinery



Example 3 – Actual Operations

Trader's Refinery



Allowed Outturn loss -
0.3% max

“Surplus” oil removed



Crude oil stored at 3rd party
terminal

Transferred to
refinery -0.3%
max



Example 3 – Actual Operations



Allowed Outturn
loss - 0.3% max

“Surplus” oil removed



Crude oil stored at 3rd party
terminal

Transferred to
refinery -0.3%
max

6 cargoes
illegally
removed

Trader's Refinery



Example 3 – Results

- **Thefts continued un-noticed.**
- **Former employee “blew the whistle”.**
- **Stocktake identified product shortage exceeding \$30,000,000.**

Example 4 – Planned Operations



- Traders imported fuel oil from FSU via Caspian Sea into northern Iran.
- Fuel oil transported by train & truck to an Iranian port on the Persian Gulf.
- Fuel oil exported by sea once sufficient product available.

- **Some trucks diverted elsewhere.**
- **Unauthorised exports by sea.**
- **Reduced availability caused increased periods between export vessels.**

Example 4 – Results

- Time-lag between vessels became unacceptable to Trader.
- Operation halted and stock check performed.
- Shortage of \$12 million identified and a claim made.

Example 5 – Background

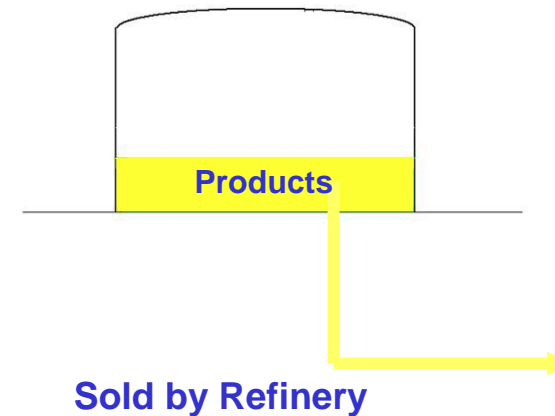
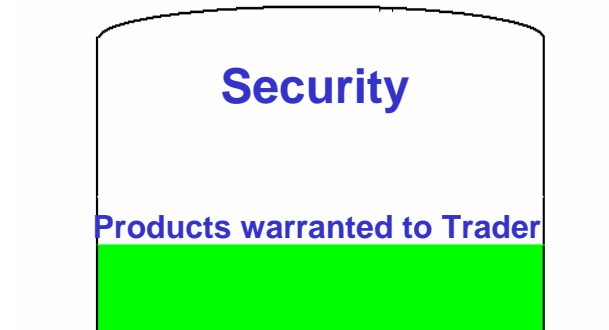
- Oil Trader supplied FSU Refiner, who was having cash flow difficulties, with crude oil feedstocks.
- Refiner was to provide Trader with a certain yield of mainly gas-oil & gasoline products.
- Remaining yield (fuel oil & residues) was to be kept by Refiner to cover processing costs & profit on the deal.

Example 5 – Planned Operation

Cargo 1



Crude Oil delivered
by Trader

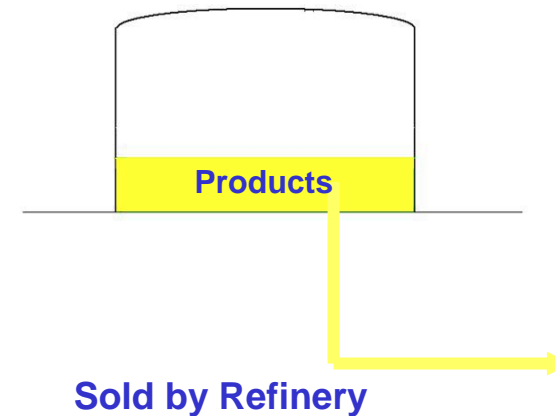


Example 5 – Actual Operation

Cargo 2



Crude Oil delivered
by Trader

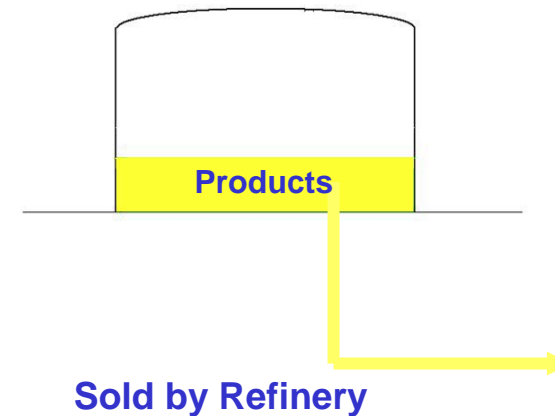


Example 5 – Actual Operation

Cargo 3



Crude Oil delivered
by Trader



Example 5 – Actual Operation

Warranted Products Sold
Elsewhere



Security



Products

All Products Sold by Refinery

Example 5 – Results

- Refiners ran into financial difficulties & refining operations were suspended.
- Stock check by Trader revealed that the Trader's book stock exceeded the physical stock at the refinery by about \$20 million.
- Trader claimed against insurance for theft.

Summary

- **These claims are all very large.**
- **Mostly joint ventures or long term deals between large international companies and smaller local operations.**
- **Underwriters had frequently insured the large company not the small one, the latter being unknown to them.**
- **Claim almost always caused by fraudulent actions of the local, smaller partner.**

Summary

- Use of independent inspectors did not prevent losses of this type from arising.
- Frequently the deal giving rise to the claim was in effect the financing of the smaller partner by the larger.
- Losses all achieved huge proportions over a long period of time because there was no adequate monitoring of the inventory position under the deal.
- In all cases the large loss came as big surprise at the end of a long period.

Recommendations

- The operation should be monitored by an independent party who has a full understanding of the deal, a right of access to all relevant information from both parties and who carefully checks the relationship between the imports, exports and inventory.
- The standard inspection operation by cargo inspectors would not fulfil this role.

Recommendations

- **Monitoring of inventory through the deal is crucial.**
- **If this is very difficult, for example because the storage facility is common to a multitude of users whose inventory position cannot be ascertained, then this may be reason to decline to provide cover.**