

## Quantity Data Analysis Report

### Navarik Default Format Bbls @ 60

#### Date Range and Grade Filter Applied Only

**Description:** This report is also known as the HMC-4 report. It summarizes all load and discharge activity. Results can be submitted to the Energy Institute's Oil Transportation Measurement Committees annually. The general findings are published each year by the Institute's Petroleum Review.

This report is based on Discharge Quantities. For Load Parcels that have been matched to a Discharge Worksheet, the discharge quantities are used for the report. When generating the report users have the ability to include Load Inspection Worksheets that are not matched to a Discharge Worksheet.

Column = This refers to the downloaded report

Field = This refers to the field in the user interface where the value came from

Column Name	Definition
A. Vessel Name – Load	(AKA "Transport Name" on the nomination) This column refers to the name of the vessel listed on the load parcel. Each line in the report is read per the vessel name. If the vessel has a load movement for the corresponding trip number, the Vessel Name – Load column will contain a value. The Vessel Name – Load column is blank if the listed vessel is only participating in a discharge movement for that trip. As the Transport Name field on the nomination is mandatory, either the Vessel Name – Load or the Vessel Name – Discharge column will always contain a value.
B. Vessel Name – Discharge	(AKA "Transport Name" on the nomination) This column refers to the name of the vessel listed on the discharge parcel. Each line in the report is read per the vessel name. If the vessel has a discharge movement for the corresponding trip number, the Vessel Name – Discharge column will contain a value. The Vessel Name – Discharge column is blank if the listed vessel is only participating in a load movement for that trip. As the Transport Name field on the nomination is mandatory, either the Vessel Name – Load or the Vessel Name – Discharge column will always contain a value.

C. Voyage Number – Load	The Voyage Number field is found on the inspection worksheet. This is <u>not</u> a mandatory field and therefore the column may be blank.
D. Voyage Number - Discharge	The Voyage Number field is found on the inspection worksheet. This is <u>not</u> a mandatory field and therefore the column may be blank.
E. Load Trip Number	The trip number that the load is taking place on. This is blank if the vessel is only participating in a discharge movement. If both the Load Trip Number column and the Discharge Trip Number column contain a value, they share the same trip number. Either the Load Trip Number or the Discharge Trip Number column will always contain a value.
F. Discharge Trip Number	The trip number that the discharge is taking place on. This is blank if the vessel is only participating in a load movement. If both the Load Trip Number column and the Discharge Trip Number column contain a value, they share the same trip number. Either the Load Trip Number or the Discharge Trip Number column will always contain a value.
G. Nomination Number – Load	The nomination number that the load is taking place on. The nomination number is an autogenerated number assigned to the movement. This is blank if the vessel is only participating in a discharge movement. If both the Nomination Number - Load column and the Nomination Number - Discharge column contain a value, they share the same trip number. Either the Nomination Number – Load or the Nomination Number – Discharge column will always contain a value.
H. Nomination Number – Discharge	The nomination number that the discharge is taking place on. The nomination number is an autogenerated number assigned to the movement. This is blank if the vessel is only participating in a load movement. If both the Nomination Number - Load column and the Nomination Number - Discharge column contain a value, they share the same trip number. Either the Nomination Number – Load or the Nomination Number – Discharge column will always contain a value.
I. Operator – Load	Operator selected on the “Operator” field of the nomination. This column will be blank if the listed vessel is for a discharge movement. If both the

	Operator – Load column and the Operator - Discharge column have values, the vessel has a load and a discharge movement for the same trip number. If the Operator values are different between the Operator – Load and Operator – Discharge columns, that means they may not share the same nomination number. As the Operator field on the nomination is a mandatory, either the Operator – Load or the Operator – Discharge column will always contain a value.
J. Operator – Discharge	Operator selected on the “Operator” field of the nomination. This column will be blank if the listed vessel is for a load movement. If both the Operator – Load column and the Operator - Discharge column have values, the vessel has a load and a discharge movement for the same trip number. If the Operator values are different between the Operator – Load and Operator – Discharge columns, that means they may not share the same nomination number.
K. Region – Load	Region – Load is listed on the nomination that the load parcel is a part of. If the Region - Load field is blank, the line item is corresponding to a discharge parcel. If the Region – Load parcel and the Region – Discharge parcel both show different values, the load and discharge parcels may not share the same nomination number. As the Region field on the nomination is mandatory, either the Region – Load or the Region – Discharge column will always contain a value.
L. Region – Discharge	Region – Discharge is listed on the nomination that the discharge parcel is a part of. If the Region - Discharge field is blank, the line item is corresponding to a discharge parcel. If the Region – Load parcel and the Region – Discharge parcel both show different values, the load and discharge parcels may not share the same nomination number. As the Region field on the nomination is mandatory, either the Region – Load or the Region – Discharge column will always contain a value.
M. Desk – Load	Desk – Load is listed on the nomination that the load parcel is a part of. If the Desk - Load field is blank, the line item is corresponding to a discharge parcel. If the Desk – Load parcel and the Desk – Discharge parcel both show different values, the load and discharge parcels may not share the same nomination number. The Desk –

	Load field is <u>not</u> mandatory on the nomination and therefore may be blank.
N. Desk – Discharge	Desk – Discharge is listed on the nomination that the load parcel is a part of. If the Desk - Load field is blank, the line item is corresponding to a discharge parcel. If the Desk – Load parcel and the Desk – Discharge parcel both show different values, the load and discharge parcels may not share the same nomination number. The Desk – Discharge field is <u>not</u> mandatory on the nomination and therefore may be blank.
O. Parcel Reference	The Parcel Reference field is optional on the nomination and therefore may be blank.
P. Grade – Load	The Grade – Load is the grade on the load parcel. If this column is blank, the vessel is participating in a discharge movement only. As the grade field on the nomination is mandatory, either the Grade – Load or the Grade – Discharge column will always contain a value.
Q. Grade – Discharge	The Grade – Discharge is the grade on the discharge parcel. If this column is blank, the vessel is participating in a load movement only. As the grade field on the nomination is mandatory, either the Grade – Load or the Grade – Discharge column will always contain a value.
R. Delivery Terms – Load	The Delivery Terms – Load are the delivery terms on the parcel details section of a load nomination. The Delivery – Terms field is <u>not</u> mandatory on the nomination and therefore may be blank.
S. Delivery Terms – Discharge	The Delivery Terms – Discharge are the delivery terms on the parcel details section of a Discharge nomination. The Delivery – Terms field is <u>not</u> mandatory on the nomination and therefore may be blank.
T. Load Port	Load Port column refers to the “Location” field on a Load nomination. Load Port column refers to the “Load Port” field on a Discharge nomination. As both the “Location” and “Load Port” fields are required, this column will always contain a value.
U. Load Port Terminal	If the Load Port in column T has a terminal listed in catalogue data – it may be selected on the “Locations” field of a load parcel and the “Load Port” field of a discharge parcel. The terminal may not be specified when selecting the location and therefore the Load Port Terminal column may be blank.

V. Load Port Berth	If the Load Port in column T has a berth listed in catalogue data – it may be selected on the “Locations” field of a load parcel and the “Load Port” field of a discharge parcel. The berth may not be specified when selecting the location and therefore the Load Port Berth column may be blank.
W. Load Date	The Bill of Lading date listed on the load worksheet. If this column is blank, the vessel is participating in a discharge movement only.
X. Discharge Port	Discharge Port column refers to the “Location” field on a nomination. If this column is blank, the vessel is participating in a load movement only.
Y. Discharge Port Terminal	If the Discharge Port in column X has a terminal listed in catalogue data – it may be selected on the “Locations” field of the discharge parcel. The terminal may not be specified when selecting a location and therefore the Discharge Port Terminal column may be blank.
Z. Discharge Port Berth	If the Discharge Port in column X has a berth listed in catalogue data – it may be selected on the “Locations” field of a discharge parcel. The berth may not be specified when selecting a location and therefore the Discharge Port Berth column may be blank.
AA. Discharge Date	Outturn date on the discharge worksheet. If this column is blank, the vessel is participating in a load only nomination.
AB. NOR Tendered – Load	NOR Tendered (Notice of Readiness) comes from the timelog of a nomination. If the vessel is participating in a discharge only nomination, this column may be blank. If the timelog is not required on this movement, this column may be blank.
AC. NOR Tendered – Discharge	NOR Tendered (Notice of Readiness) comes from the timelog of a nomination. If the vessel is participating in a load only nomination, this column may be blank. If the timelog is not required on this movement, this column may be blank.
AD. Load Inspector	Inspection company nominated for the load nomination (Inspection Company field on the nomination). If the vessel is participating in a discharge only nomination, this field may be blank. As the Inspection Company field is mandatory, either the Load Inspector column or

	the Discharge Inspector column will contain a value (or both).
AE. Discharge Inspector	Inspection company nominated for the discharge nomination (Inspection Company field on the nomination). If the vessel is participating in a load only nomination, this field may be blank. As the Inspection Company field is mandatory, either the Load Inspector column or the Discharge Inspector column will contain a value (or both).
AF. Load Expeditor	Same as AD
AG. Discharge Expeditor	Same as AE
AH. Quantity Determined – Load	Quantity Determined field on a Load worksheet. This is <u>not</u> a mandatory field and therefore may be blank.
AI. Quantity Determined – Discharge	Quantity Determined field on a Discharge worksheet. This is <u>not</u> a mandatory field and therefore may be blank.
AJ. VCF Table - Shore Load	VCF Table - Shore Load (Shore Data section of the load worksheet). If this column is blank, the vessel is participating in a discharge movement only. As the VCF table is a mandatory field on the inspection worksheet, either the VCF Table – Shore Load or the VCF Table Shore Discharge column will always contain a value (or both).
AK. VCF Table – Ship Load	VCF Table – Ship Load (Vessel Data section of the load worksheet). If this column is blank, the vessel is participating in a discharge movement only. As the VCF table is a mandatory field on the inspection worksheet, either the VCF Table – Ship Load or the VCF Table Ship Discharge column will always contain a value (or both).
AL. VEF Table – Shore Discharge	VCF Table – Shore Discharge (Shore Data section of the discharge worksheet). If this column is blank, the vessel is participating in a load movement only. As the VCF table is a mandatory field on the inspection worksheet, either the VCF Table – Shore Load or the VCF Table Shore Discharge column will always contain a value (or both).
AM. VCF Table – Ship Discharge	VCF Table – Ship Discharge (Ship data section of the discharge worksheet). If this column is blank, the vessel is participating in a load movement only. As the VCF table is a mandatory field on the inspection worksheet, either the VCF Table – Ship Load or the VCF Table Ship Discharge column will always contain a value (or both).

AN. Density @ 15 deg C – Shore Load	Density @ 15 deg C field of the Shore Data section of a load worksheet. If this column is blank, the vessel is participating in a discharge movement only. As the Density @ 15 deg C is a mandatory field on the worksheet, either the Density @ 15 deg C – Shore Load column or the Density @ 15 deg C – Shore Discharge column will contain a value (or both).
AO. API – Shore Load	API Gravity field of the Shore Data section of a load worksheet. If this column is blank, the vessel is participating in a discharge movement only. As the API Gravity field is mandatory on the inspection worksheet, either the API – Shore Load column or the API – Shore Discharge column will contain a value (or both).
AP. Density @ 15 deg C – Shore Discharge	Density @ 15 deg C field of the Shore Data section of a discharge worksheet. If this column is blank, the vessel is participating in a load movement only. As the Density @ 15 deg C is a mandatory field on the worksheet, either the Density @ 15 deg C – Shore Load column or the Density @ 15 deg C – Shore Discharge column will contain a value (or both).
AQ. API – Shore Discharge	API Gravity field of the Shore Data section of a discharge worksheet. If this column is blank, the vessel is participating in a load movement only. As the API Gravity field is mandatory on the inspection worksheet, either the API – Shore Load column or the API – Shore Discharge column will contain a value (or both).
AR. Bill of Lading TCV	Bill of Lading TCV (Total Calculated Volume). This field is found in the Shore Data section of a load worksheet and the Load Port Information section of a discharge worksheet. As this is a mandatory field on the load and discharge worksheet, this column will always contain a value.
AS. Bill of Lading GSV	Bill of Lading GSV (Gross Sailing Volume). This field is found in the Shore Data section of a load worksheet and the Load Port Information section of a discharge worksheet. This field is only mandatory on the load worksheet. Therefore, if the vessel is participating in a discharge only movement, this column may be blank.
AT. Recalc Bill of Lading TCV	Recalc Bill of Lading TCV (Total Calculated Volume). This field is found in the Shore Data section of a load worksheet. This field is <u>not</u> mandatory. If the column contains 0's, either the

	vessel is participating in a discharge-only movement, or the inspector has not included this in their worksheet.
AU. Recalc Bill of Lading NSV	Recalc Bill of Lading NSV (Net Sailing Volume) This field is found in the Shore Data section of a load worksheet. This field is <u>not</u> mandatory. If the column contains 0's, either the vessel is participating in a discharge-only movement, or the inspector has not included this in their worksheet.
AV. OBQ (Total) Tanks to be Loaded	OBQ (On Board Quantity). This field on the load inspection worksheet is asking how much product was on the vessel at the time of loading. If this column is blank, the vessel was participating in a discharge only nomination.
AW. OBQ (FW) Tanks to be Loaded	OBQ FW (On Board Quantity Free Water). This field on the load inspection worksheet is asking how much water was on the vessel at the time of loading. If this column is blank, the vessel was participating in a discharge only nomination.
AX. TCV after loading	TCV after loading (Total Calculated Volume) is found in the Vessel Data section of a load worksheet. If this column contains 0's, the vessel is participating in a discharge only movement.
AY. GSV after loading	GSV after loading (Gross Sailing Volume) is found in the Vessel Data section of a load worksheet. If this column contains 0's, the vessel is participating in a discharge only movement.
AZ. Table difference	Table Difference is a field located on the discharge worksheet in the Vessel Data section of the quantity piece. This is <u>not</u> a mandatory field and therefore the column can contain 0's. This field may also contain 0's if the vessel is participating in a load only nomination.
BA. Mean Temp Before Delivery (deg F)	Mean Temp Before Delivery (deg F) is a field located on the load worksheet in the Shore Data section of the quantity piece. As this is a mandatory field, the column can only be blank if the vessel is participating in a discharge only nomination.
BB. Mean Temp After Load (deg F)	Mean Temp After Load (deg F) is a field located on the load worksheet in the Shore Data section of the quantity piece. As this is a mandatory field, the column can only be blank if the vessel is participating in a discharge only nomination.
BC. Load Bill of Lading Date – discharge worksheet	Bill of Lading date listed in the Load Port Information section of a discharge worksheet. As



	this is a mandatory field, the column can only be blank if the vessel is participating in a load only nomination.
BD. Load B/L TCV (Bbls) – discharge worksheet	Load Bill of Lading TCV (Total Calculated Volume) is listed in the Load Port Information section of a discharge worksheet. As this is a mandatory field, the column can only be blank if the vessel is participating in a load only nomination.
BE. Load B/L NSV (Bbls) – discharge worksheet	Load Bill of Lading NSV (Net Sailing Volume) is listed in the Load Port Information section of a discharge worksheet. As this is a mandatory field, the column can only be blank if the vessel is participating in a load only nomination.
BF. TCV After Loading (Bbls) – discharge worksheet	TCV (Total Calculated Volume) After Loading is listed in the Load Port Information section of a discharge worksheet. As this is a mandatory field, the column can only be blank if the vessel is participating in a load only nomination.
BG. GSV After Loading (Bbls) – discharge worksheet	GSV (Gross Sailing Volume) After Loading is listed in the Load Port Information section of a discharge worksheet. As this is a mandatory field, the column can only be blank if the vessel is participating in a load only nomination.
BH. TCV Before Discharge	TCV (Total Calculated Volume) Before Discharge is found on the discharge worksheet in the Vessel Data quantity section. As this is a mandatory field, the column will display 0's for the vessels participating in load only nominations.
BI. GSV before discharge	GSV (Gross Sailing Volume) Before Discharge is found on the discharge worksheet in the Vessel Data quantity section. As this is a mandatory field, the column will display 0's for the vessels participating in load only nominations.
BJ. Mean Temp Before Discharge (deg F)	Mean Temp Before Discharge is found on the discharge worksheet in the Vessel Data quantity section. As this is a mandatory field, the column can only be blank if the vessel is participating in a load only nomination.
BK. Mean Temp After Receipt (deg F)	Mean Temp After Receipt is found on the discharge worksheet in the Shore Data quantity section. As this is a mandatory field, the column can only be blank if the vessel is participating in a load only nomination.
BL. Outturn TCV	Outturn TCV (Total Calculated Volume) is found on the discharge worksheet in the Shore Data quantity section. As this is a mandatory field, the

	column will display 0's for the vessels participating in a load only nomination.
BM. Outturn GSV	Outturn GSV (Gross Sailing Volume) is found on the discharge worksheet in the Shore Data quantity section. As this is a mandatory field, the column will display 0's for the vessels participating in a load only nomination.
BN. ROB From Loaded Tanks (Total)	ROB (Remaining on Board) From Loaded Tanks (Total) is found on the discharge worksheet in the Vessel Data quantity section. As this is a mandatory field, the column will display 0's for the vessels participating in load only nominations. The column will likely display 0's regardless (or a very small amount) as the remaining product on board the vessel after discharging should be close to null.
BO. ROB From Loaded Tanks (FW)	ROB (Remaining on Board) From Loaded Tanks (FW – Free Water) is a field found on the discharge worksheet in the vessel Data quantity section. As this is a mandatory field, the column will display 0's for the vessels participating in load only nominations. This column will likely display 0's regardless of the activity (or a very small amount) as the remaining product on board the vessel after discharging should be close to null.
BP. VEF Load	The VEF value listed on the load worksheet. If this column is blank, the vessel is participating in a discharge movement only. As the VEF field on an inspection worksheet is mandatory, either the VEF Load column or the VEF discharge column will contain a value.
BQ. VEF Discharge	The VEF value listed on the discharge worksheet. If this column is blank, the vessel is participating in a load movement only. As the VEF field on an inspection worksheet is mandatory, either the VEF Load column or the VEF Discharge column will contain a value.