

GLOBAL SURVEYORS AND INSPECTORS LTD.

汎世檢定株式會社

MARINE SURVEYORS, HULL & CARGO
P & I SURVEYORS
MARINE CLAIM CONSULTANT
MARINE CONSULTANT
FREE-SHIPMENT INSPECTION
INSPECTION OF OIL & CHEMICAL PRODUCTS



3F, 344, JWASUYEONG-RO,
YEOSU-SI, JEOLLANAM-DO, KOREA
TEL. : 82-61-666-2227(8)
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CERTIFICATE OF QUALITY

ISSUED BY INDEPENDENT SURVEYOR AT THE LOAD PORT

Report No. GSI-KMI002-09/23-B

ORIGINAL

Date : Sep. 14, 2023

PORT OF LOADING : YEOSU, SOUTH KOREA
PORT OF DISCHARGE : DEENDAYAL PORT, INDIA
NAME OF VESSEL : CHEMROAD QUEEN
COMMODITY : METHYL ISOBUTYL KETONE (MIBK)
QUANTITY : 237,500 MTS
ORIGIN : SOUTH KOREA
PACKING : IN BULK
DATE OF SAMPLING & ANALYSIS : ON Sep. 12, 2023 AT THE APPLICANT'S SHORE TANKS IN YEOSU, KOREA

THE ABOVE SAMPLE WAS ANALYZED AT THE LABORATORY OF KUMHO P & B CHEMICALS INC., WITH THE RESULTS OBTAINED AS FOLLOWS :

<u>TEST ITEM</u>	<u>UNIT</u>	<u>SPEC.</u>	<u>RESULTS</u>	<u>TEST METHOD</u>
MIBK Purity	wt. %	Min99.5	99.70	ASTM D3329
Water	wt. %	Max0.1	0.03	ASTM D1364
COLOR	APHA	Max10	4	ASTM D1209
Distillation Test	-			ASTM D1078
IBP	℃	Min114.0	115.4	ASTM D1078
DP	℃	Max117.0	116.1	ASTM D1078
Acidity	wt. %	Max0.002	0.002	ASTM D1613
Density at 20℃	g/ml	0.799 ~ 0.802	0.801	ASTM D4052

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Report No. GSI-KMI002-09/23-B

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NAME OF VESSEL : CHEMROAD QUEEN
COMMODITY : METHYL ISOBUTYL KETONE (MIBK)
QUANTITY : 237.500 MTS
ORIGIN : SOUTH KOREA
PACKING : IN BULK
DATE & PLACE OF SURVEY : ON Sep. 14, 2023 AT THE PORT OF YEOSU, KOREA

We, the undersigned surveyor, hereby surveyed the quantity loaded into the above vessel before/after loading.

Tank No. T-22	Opening Gauging	Closing Gauging	Balance
Innage	10.294 M	9.393 M	237.500 MT
App. Volume	3,411.343 KL	3,111.204 KL	
Tank Temp.	30.0 °C	30.0 °C	
Weight Corr. Factor	0.7913	0.7913	
Weight	2,699.396 MT	2,461.896 MT	

TOTAL LOADED QUANTITY 237.500 MT

Note : W.C.F - 0.00092/°C

Kg/Liter - 0.8051 at 15°C (Air)



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SHORE TANK QUANTITY CERTIFICATE BEFORE LOADING AND AFTER LOADING

ISSUED BY INDEPENDENT SURVEYOR AT THE LOAD PORT

Report No. GSI-KMI002-09/23-B

ORIGINAL

Date : Sep. 14, 2023

PORT OF LOADING : YEOSU, SOUTH KOREA
PORT OF DISCHARGE : DEENDAYAL PORT, INDIA
NAME OF VESSEL : CHEMROAD QUEEN
COMMODITY : METHYL ISOBUTYL KETONE (MIBK)
QUANTITY : 237.500 MTS
ORIGIN : SOUTH KOREA
PACKING : IN BULK
DATE & PLACE OF SURVEY : ON Sep. 14, 2023 AT THE PORT OF YEOSU, KOREA

We, the undersigned surveyor, hereby surveyed the quantity loaded into the above vessel before/after loading.

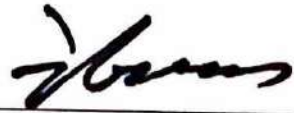
Tank No. T-22	Opening Gauging	Closing Gauging	Balance
Innage	10.294 M	9.393 M	237.500 MT
App. Volume	3,411.343 KL	3,111.204 KL	
Tank Temp.	30.0 °C	30.0 °C	
Weight Corr. Factor	0.7913	0.7913	
Weight	2,699.396 MT	2,461.896 MT	

TOTAL LOADED QUANTITY 237.500 MT

Note : W.C.F - 0.00092/°C

Kg/Liter - 0.8051 at 15°C (Air)




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ULLAGE REPORT

Report No. GSI-KMI002-09/23-B

ORIGINAL

Date : Sep. 14, 2023

PORT OF LOADING : YEOSU, SOUTH KOREA
PORT OF DISCHARGE : DEENDAYAL PORT, INDIA
NAME OF VESSEL : CHEMROAD QUEEN
COMMODITY : METHYL ISOBUTYL KETONE (MIBK)
QUANTITY : 237.500 MTS
ORIGIN : SOUTH KOREA
PACKING : IN BULK
DATE & PLACE OF SURVEY : ON Sep. 14, 2023 AT THE PORT OF YEOSU, KOREA

We the undersigned surveyor, hereby surveyed the quantity on vessel before/after receiving.

Tank No.	Ullage (M)	Gross Volume (KL)	Temp. (°C)	W.C.F	Weight (MT)
1S	3.120	1,716.730	27.6	0.7935	1,362.225
SLP	2.356	695.064	29.8	0.7915	550.143
TOTAL :		2,411.794 KL			1,912.368 MT

Ship's Draft : FWD 5.40 M AFT 7.30 M List : Port/Stbd -

Note : W.C.F - 0.00092/°C
Kg/Liter - 0.8051 at 15°C (Air)

B/L SPLIT :

REPORT NO.	B/L Q'TY	SHIP'S Q'TY
GSI-KMI002-09/23	237.500 MT	236.910 MT
GSI-KMI002-09/23-A	237.500 MT	236.910 MT
GSI-KMI002-09/23-B	237.500 MT	236.910 MT
GSI-KMI003-09/23	246.065 MT	245.454 MT
GSI-KMI003-09/23-A	500.000 MT	498.758 MT
GSI-KMI003-09/23-B	458.565 MT	457.426 MT
TOTAL :	1,917.130 MT	1,912.368 MT



[Signature]
Surveyor, Yeosu-Office

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CERTIFICATE OF SHIP'S TANK (S) CLEANLINESS

ISSUED BY INDEPENDENT SURVEYOR AT THE LOAD PORT

Report No. GSI-KMI002-09/23-B

ORIGINAL

Date : Sep. 14, 2023

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PORT OF DISCHARGE : DEENDAYAL PORT, INDIA
NAME OF VESSEL : CHEMROAD QUEEN
COMMODITY : METHYL ISOBUTYL KETONE (MIBK)
QUANTITY : 237.500 MTS
ORIGIN : SOUTH KOREA
PACKING : IN BULK
DATE & PLACE OF SURVEY : ON Sep. 14, 2023 AT THE PORT OF YEOSU, KOREA

1. Stowage : No. 1S, SLP
2. Previous Cargo : 1st : Ethylene Glycol, Octanol (all isomers)
2nd : KIXXLUBO 600N, HVI 120
3rd : Butyraldehyde, MEB

3. Cleaning Methods :

1. B/W with cold S/W for 1.5hrs each tank
2. B/W with hot S/W(75℃) for 2.0hrs each tank
3. B/W with evaporate DI Water for 15min each tank
4. Eject water
5. Blowing
6. Draining of tanks, lines and pumps
7. Dry up

Tank Coating : SUS 316L

Results of Wall Wash Test :

Hydrocarbon	Nil
Chloride	Passed
PTT	Passed

Note : This CERTIFICATE does not cover the state of cleanliness and dryness of vessel's tanks, pumps and lines system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible.



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SAMPLING REPORT

Report No. GSI-KMI002-09/23-B

ORIGINAL

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NAME OF VESSEL : CHEMROAD QUEEN
COMMODITY : METHYL ISOBUTYL KETONE (MIBK)
QUANTITY : 237.500 MTS
ORIGIN : SOUTH KOREA
PACKING : IN BULK
DATE & PLACE OF SURVEY : ON Sep. 14, 2023 AT THE PORT OF YEOSU, KOREA

Samples Distributed :

<u>Ship's Tank</u>	<u>Shore Tank</u>		
Two(2)Bottles X 250L	One(1)Bottle X 250L		To be retained by this company for 2 months. (Seal No. 602382)
Two(2)Bottles X 250L	One(1)Bottle X 250L		Delivered to ship's master. (Seal No. 602381)
-	One(1) Bottle		Analysis.
* Total sample :	Seven(7) Bottles		

All samples were sealed with this company's seal.

Type of sample : Composite.




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TIME LOG

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DATE & PLACE OF SURVEY : ON Sep. 14, 2023 AT THE PORT OF YEOSU, KOREA

TIME

OCCURRENCE

2250 hrs Sep. 12, 2023	Vessel arrived at Yosu port.
0030 hrs Sep. 14, 2023	Vessel berthed.
0315 hrs Sep. 14, 2023	Hose connected.
0440 hrs Sep. 14, 2023	Commenced loading.
2010 hrs Sep. 14, 2023	Completed loading.
2120 hrs Sep. 14, 2023	Hose disconnected.
2200 hrs Sep. 14, 2023	Vessel De-berthed.



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