

VESSEL : AKRA 30PORT : PONTIANAKVOY. NO: 27/D/2015BERTH : AKR TERMINALDATE : 22th. AUGUST 2015**1. CARGO INFORMATION** "Refer to attached MSDS"

CARGO GRADE		
STOWAGE TANKS		1P, 1C, 1S, 2P, 2C, 2S, 3P, 3C, 3S, 4P, 4C, 4S
QUANTITY	SHIP'S FIG.	<b>3583 KL</b>
	NOMINATED FIG.	<b>3583 KL</b>
LOADING PORT		SINGAPORE
DISCHARGING PORT		PONTIANAK
S. G. or DENSITY		<b>0.8581</b>
HEAT REQUIRMENTS		<b>No</b> (During underway : °C) (Disch. : °C)
HEAT LIMITATIONS		<b>No</b> ( °C) (Max. °C/ day)
N <sub>2</sub> REQUIRMENTS		<b>No/yes (no ) % O<sub>2</sub> contents</b>
POLLUTION CATEGORY		
IMO TYPE		UN no.1202 Class 3
PREWASH REQUIRMENTS		NO
VISCOSITY		1.9 - 4.1 Cst @40°C
FLASH POINT	MELTING POINT	<b>65 °C</b>   <b>n/a</b>
BOILING POINT		<b>160 – 385 °C</b>
EXTINGUISHING AGENTS		Water Fog, Foam, Dry Chemical, CO <sub>2</sub>

**2. STOWAGE AND TANKWISE QUANTITY**(2-1) **STOWAGE**(Refer to Stowage plan – See Stowage Plan)

SLOP TANK PORT	4P 92.331 M3	3P 170.359 M3	2P 94.566 M3	1P 163.113 M3
	4C 506.596 M3	3C 697.937 M3	2C 693.700 M3	1C 674.627 M3
SLOP TANK STBD	4S 90.913 M3	3S 167.902 M3	2S 94.178 M3	1S 180.241 M3

DENSITY @15C : 0.8581  
WCF / T 56 : 0.8570  
TOTAL VOLUME : 3626.463  
TOTAL GSV KL : 3583.534

TOTAL Bbls@ 60 F : 22551.179  
TOTAL METRIC TONS : 3071.089  
TOTAL LONG TONS : 3022.596

## (2-2) TANKWISE QUANTITY TO BE DISCHARGE (refer to stowage plan) – See Stowage Plan

TANK Nos.	1C	2C	3C	4C	1P	1S	2P	2S	3P	3S	4P	4S	
QUANTITY	M3	674.627	693.700	697.937	506.596	163.113	180.241	94.566	94.178	170.359	167.902	92.331	90.913
	KL	666.599	685.306	689.632	500.669	161.237	178.096	93.478	93.076	168.366	165.938	91.269	89.868
SOUNDING	6.580	6.570	6.610	4.950	5.780	6.400	6.530	6.470	6.450	6.370	6.330	6.220	
VOLUME (%)	94	94	94	71	84	93	93	92	92	91	90	89	

## 3. ORDER OF STRIPPING TANKS

Call Ch. Officer while 1 Hrs before strip cargo tank.

※ **GRADE : ADF – SEE STOWAGE PLAN**

SLOP TANK PORT	4P	10 EMPTY	3P	7 EMPTY	2P	4 EMPTY	1P	1 EMPTY
	4C	12 EMPTY	3C	9 EMPTY	2C	6 EMPTY	1C	3 EMPTY
SLOP TANK STBD	4S	11 EMPTY	3S	8 EMPTY	2S	5 EMPTY	1S	2 EMPTY

## 4. TRANSFER PIPING ARRANGEMENTS (jumping, etc.)

- CARGO LINE : ONE(1) ONLY
- VAPOR LINE : N/A
- N2 PURGE LINE : N/A

## REMARKS :

Bow to Manifold : 37.5 m  
 Aft to Manifold : 59.1 m  
 Keel to Manifold : 9.7 m  
 Air Draft(Height) : 30.85 m  
 Summer Draft : 6.813 m

## 5. WATCH ARRANGEMENTS

TIME	LOCATION	RANK AND NAME	REMARKS
FROM ~TO : 0000 – 0600 1200 – 1800	C. O. C.	2 <sup>ND</sup> .OFFICER	<i>DECK CADET ABDI.K</i>
	MANIFOLD	AB - MUZAYYIN	
	ON DECK	BOSUN MURTAJI	
FROM ~ TO : 0600 – 1200 1800 – 2400	C. O. C.	3 <sup>RD</sup> .OFFICER	<i>DECK CADET ERWIN</i>
	MANIFOLD	AB - HUFRON	
	ON DECK	AB – DWI MARWANTO	

## 6. BALLAST PLAN - To attach ship's Ballast Plan

### PRE-MEETING FOR CARGO OPERATION

#### [aa] KINDS OF CARGO & STOWAGE TANKS

No	CARGO GRADE	NOMINATED QUANTITY	STOWAGE CARGO TANKS
1	HSD / ADF	3583.534 KL15°C	1,2,3 AND 4 CROSS

#### [bb] CARGO S. G. or DENSITY & TEMPERATURE

No	CARGO GRADE	S. G. or DENSITY	TEMPERATURE AVERAGE
1	HSD/ ADF	0.8581	29.3°C
2			
3			

#### [cc] FIRST AID MEASURES

##### a) Inhalation

If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove to fresh air, if symptoms persist obtain medical advise.

##### b) Eye Contact

Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advise if any pain or redness develops or persists.

##### c) Skin Contact

Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin.

##### d) Ingestion

if contamination of the mouth occurs, wash out thoroughly with water.

Except as a deliberate act, the ingestion of large amounts of product is unlikely. If it should occur, do not induce vomiting; obtain medical advise.

#### [dd] FIRE FIGHTING MEASURES

## a) Specific hazards

Thermal decomposition product will vary with conditions.

Incomplete combustion will generate smoke, carbondioxide & hazardous gases, including carbon monoxide

## b) Extinguishing Media

Use foam, dry powder or water fog.

## c) Unsuitable extinguishing media

DO NOT USE water jet.

## d) Other Information

Compiled by: Product stewardship group whitchurch hill pangbourne United Kingdom.

**[ee] ACCIDENTAL RELEASE MEASURES**

## a) Personal precautions

Avoid as far as reasonably practicable, inhalation of vapour, mist or fumes generated during use.

Avoid contact with skin and eyes, Do not siphon product by mouth, whilst using do not eat, drink or smoke.

Wash hands thoroughly after contact.

## b) Personal Protection

Wear a full face visor or chemical goggles as appropriate.

## c) Emergency Spill Procedures

In the event of spillage, remove all sources of ignition and ensure good ventilation.

## d) Cleanup methods ( small spill)

Spilled material may make surfaces slippery. Clean up spilled material immediately.

Contain and recover spilled material using sand or other suitable inert absorbent material.

## e) Clean up method ( large spill)

Should be smothered with foam to reduce the risk of ignition.

The foam blanket should be maintained until the area is declared safe.

**[ff] PRECAUTIONS AGAINST STATIC ELECTRICITY**

**Connected with earth cable ( grounding cable / wire ) to shore / terminal.**

**[gg] WEATHER / TIDAL INFORMATION**

**See passage plan.**

[hh] **OTHER INFO**

- a) Passing vessels expected.

**PROCEDURES – DISCHARGING OPERATION**

(1) Preparation for discharging

- a) Oil Spill equipment ready for immediate use.
- b) 2 Fire hose and 2 Portable extinguisher at manifold
- c) Confirmed all valve open and/or close (manifold and pump side) under Ch. Off control.
- d) Ensure reducers at manifold for discharging cargo and ready for connected
- e) Ensure all deck scuppers on main deck and all drains of spill container are plugged.
- f) Ship/ Shore checklist to be completed and initialled as required.
- g) Ullaging and calculation cargo on board by L/M, surveyor and ship staff.
- h) Confirmation to loading master / terminal before commenced discharge.
- i) Setting line and discharge valve before commenced discharge.
- j) Call to Engine control room for prepare Cargo pump and air clutch before Discharge.

(2) During cargo operation

- a) Regular check all line, valve if any cargo leakage at main deck and pump room.
- b) Regular lookout all around of vessel for oil pollution
- c) Check and confirm pressure gauge fitted on off-shore manifold, in operational condition and being monitored regularly in order to avoid any back pressure.
- d) Regular check for pressure manifold and flow rate.
- e) Ensure Ship/Shore communication opened at all times
- f) To call Chief Officer whenever in doubt.
- g) Strictly comply with discharging sequence ( attached)
- h) To compare with shore/terminal discharge quantity every hours.
- i) To comply with ship/shore safety check list and also the recurring items checklist.

(3) Stripping

- a) 1 hr notice to all deck crew before completion of cargo operation
- b) 1 hr / 30 mins / 15 mins to terminal
- c) Reduce discharging rate if necessary
- d) Visual inspection of cargo tanks with surveyor

- (4) All tanks well stripe and dry ( confirmation with loading master & surveyor )
- (5) Line blowing with air blow press manifold 5 kg/cm<sup>2</sup> about 4 times.
- (6) Completed air blow and disconnected ( confirmation with loading master )
- (6) To call Chief Officer whenever in doubt.

### SAFETY PRECAUTIONS

- (1) Proper grounding of ship / shore earth cable
- (2) Mooring lines and accommodation ladder tended regularly
- (3) Safety Wires adjusted to correct height at all times
- (4) All crew understood Emergency spill procedures
- (5) Wilden pump tested and ready for use
- (6) Ensure Personal Protective Equipment are used as required

**Acknowledged by :**

BSN	ABC	2/OFF.	
ABA	CADET	3/OFF.	
ABA	CADET	<b>Chief officer</b>	



M.T. AKRA 30

Voy No.: 27/D/2014

Port: PONTIANAK

Cargo Grade		API / Den15 C*	VCF		WCF		Loadport ship Figs. BBL	Av.Load port Temp°F		GOV KL	
1	HSD / ADF	0.8581	0.9883		0.8570		22551.179 BBL	29.3		3583.534	
		100%		75%		50%		25%		Final	
Condition After-Hrs		Initial		Sequence 1		Sequence 2		Sequence 3		Sequence 4	
		Sound	Volume	Sound	Volume	Sound	Volume	Sound	Volume	Sound	Volume
COT no.	1C	6.53 m	674.6 M3	4.24 m	506.2 M3	2.83 m	337.5 M3	1.42 m	168.7 M3	0 M	EMPTY
COT no.	2C	6.55 m	693.7 M3	4.83 m	520.6 M3	3.22 m	347.1 M3	1.61m	173.5 M3	0 M	EMPTY
COT no.	3C	6.47 m	697.9 M3	4.98 m	515.8 M3	3.33 m	343.9 M3	1.66m	171.9 M3	0 M	EMPTY
COT no.	4C	4.79 m	506.6 M3	3.11 m	363.7 M3	2.12 m	242.5 M3	1.06m	121.2 M3	0 M	EMPTY
COT no.	1P	6.47 m	163.1 M3	4.74 m	136.1 M3	3.17 m	90.70 M3	1.58m	45.4 M3	0 M	EMPTY
COT no.	1S	6.36 m	180.2 M3	4.82 m	135.5 M3	3.19 m	90.30 M3	1.59m	45.15 M3	0 M	EMPTY
COT no.	2P	6.55 m	94.6 M3	4.91 m	72.9 M3	3.27 m	48.7 M3	1.63m	24.3 M3	0 M	EMPTY
COT no.	2S	6.59 m	94.2 M3	4.84 m	72.0 M3	3.32 m	48.0 M3	1.65m	24.0 M3	0 M	EMPTY
COT no.	3P	6.43 m	170.4 M3	4.83 m	129.7 M3	3.22 m	86.5 M3	1.61m	42.6 M3	0 M	EMPTY
COT no.	3S	6.41 m	167.9 M3	4.84 m	130.8 M3	3.23 m	87.3 M3	1.62m	43.6 M3	0 M	EMPTY
COT no.	4P	6.34 m	92.3 M3	4.94 m	71.9 M3	3.29 m	47.9 M3	1.64m	23.7 M3	0 M	EMPTY
COT no.	4S	6.38 m	90.9 M3	4.93 m	73.3 M3	3.28 m	48.9 M3	1.65m	24.4 M3	0 M	EMPTY
Total Cargo o/b M3*		3626.5 M3		2846.9 M3		1897.9 M3		948.9 M3		0 M3	
DISCH Rate M3/hr		0		500 M3		500 M3		500 M3		500 M3	
Water Ballast		innage	Vol.	innage	Vol.	innage	Volume	innage	Volume	innage	Vol.
WBT no.	FPT	0	0	2.25 M	43 M3	4.15 M	85 M3	6.03 M	128 M3	8.28 M	171 M3
WBT no.	1 P/S	0	0	1.69 M	52 M3	4.49 M	104 M3	6.30 M	156 M3	8.36 M	208 M3
WBT no.	2 P/S	0	0	0	0	0	0	0	0	0	0
WBT no.	3 P/S	0	0	0	0	0	0	0	0	0	0
WBT no.	4 P/S	0	0	0	0	0	0	0	0	0	0
WBT no.	5 P/S	0	0	0	0	0	0	0	0	0	0
WBT no.	6 P/S	0	0	0	0	0	0	0	0	0	0
WBT no.	7 P/S	0	0	0.74 M	54 M3	1.80 M	108 M3	5.08 M	162 M3	8.29 M	216 M3
WBT no.	APT P/S	0	0	0	0	0	0	0	0	0	0
WBT no.	APT S/S	0	0	0	0	0	0	0	0	0	0
Total Ballast o/b m3		0 M3		149 M3		297 M3		446 M3		594 M3	
Trim ( Mtr )		0		0.35		0.70		1.05		1.4 M3	
Draft Ford		Draft Aft		Draft Aft		Draft Aft		Draft Aft		Draft Aft	
		5.00	5.00	4.65	4.95	3.70	4.50	2.75	4.30	2.20	3.50
Draft Mean ( Mtr )		5.00		4.80		4.10		3.52		2.85	
Max:	% SF	% BM									
	33	46	29	42	27	36	26	34	24	31	

\* Delete as appropriate

Prepared by C/O : Name &amp; Signature

Approved by Master