

105831

DAEKYUNG MACHINERY & ENGINEERING CO., LTD.

J1

RUBBING OF NAMEPLATE

PROJECT NAME	VOYAGEUR UPGRADER (VU)	ITEM NO.	205E-100B
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SUNCOR ENERGY INC.			
KERO PRODUCT / FEED EXCHANGER			
SERVICE			
ITEM NO.	205E-100B	CRN NO.	U2511.2
MANUF. SERIAL No.	DK2007-090B	PRN NO.	2
PURCHASE ORDER No.	987-PO205-E-1-1AC	YEAR BUILT	2008
TUBE SURFACE AREA	6179.5 ft ²	EMPTY WEIGHT	70300 lb
RULES/CODE	ASME SEC. VIII DIV. 1 (2004ED. & 2006ADD.) + API 660 (7TH ED.) + TEMA (8th) "R"		
CERTIFIED BY	DAEKYUNG MACHINERY & ENGINEERING CO., LTD.		
	SHELL SIDE		TUBE SIDE
MIN. REQ'D DESIGN PRESS. (INT./EXT.)	425/F.V. psig	500/F.V. psig	
MIN. REQ'D DESIGN TEMP. (INT./EXT.)	650/400 °F	650/400 °F	
HYDRO. TEST PRESS. (FIELD/SHOP)	553/566 psig	654/663 psig	
M.A.W.P.	425 @ 650 psig @ °F	503 @ 650 psig @ °F	
M.A.E.P.	F.V. @ 400 psig @ °F	F.V. @ 400 psig @ °F	
M.D.M.T.	-20 @ 425/F.V. °F @ psig	-20 @ 503/F.V. °F @ psig	
TUBE EXTERNAL DESIGN PRESSURE AT TEMP.	425 AT 500 psig AT °F		
DIFFERENTIAL DESIGN PRESSURE	psig	psig	
FLUID	BITUMEN	KEROSENE	
CORROSION ALLOWANCE	1/8" INCH	1/8" [0.03" ON TUBES] INCH	
SHELL THICKNESS (INCH)	7/8" & 1" INCH	1" INCH	
MATERIAL SPECIFICATION	SA516-70+N	SA516-70+N+S3	
RADIOGRAPHY (SHELL/HEAD)	SPOT/SEAMLESS	SPOT/-	
POST WELD HEAT TREATED	NO	YES	
TEMA TYPE / SIZE	H-AES / ID 52" x 288" L		

☐ REVIEWED BY

☒ REVIEWED BY

QM/DKME

RUBBING OF NAMEPLATE

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(National Board Serial Number)

CERTIFIED BY DAEKYUNG MACHINERY & ENGINEERING CO., LTD.
(NAME OF MANUFACTURER)

SHELL	TUBE S
425 psig AT 650 °F	503 psig AT 650 °F
(MAX. ALLOWABLE WORKING PRESSURE)	
F.V psig AT 400 °F	F.V psig AT 400 °F
(MAX. ALLOWABLE EXTERNAL WORKING PRESSURE)	
(INT./EXT.)	(INT./EXT.)
-20 °F AT 425/F.V PSI.G	-20 °F AT 503/F.V PSI.G
(MIN. DESIGN METAL TEMPERATURE)	
DK2007-090B / 205E-100B	
(MANUFACTURER'S SERIAL NUMBER/ITEM NO.)	
2008	
(YEAR BUILT)	

W
RT 4-S
RT 3-T
HT-T

TUBE : EXTERNAL DESIGN PRESSURE AT TEMPERATURE
IS 425 psig AT 500°F & CORROSION ALLOWANCE
IS 0.03" [0.015" APPLIED TO OUTER AND INNER SIDE]

☐ REVIEWED BY



☐ Witnessed
☒ Reviewed

☒ REVIEWED BY

5/13/08
5/14/08

5/13/08
QM/DKME