



*The First Name In Trailers*

**C. Key Investments Ltd.**

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Trailer Quote Prepared For

***OCEAN TRAILER STOCK  
9076 RIVER ROAD  
DELTA, BC V4G 1B5***

*40 - VS2RA  
April 20, 2023*

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## Specifications (☞ = Option to Base Model)

### 1-Model & Payload Capacity

<i>MODEL</i>	VS2RA
<i>PAYLOAD CAPACITY</i>	55,000 LBS EVENLY DISTRIBUTED PAYLOAD CAPACITY
<i>SPECIAL TRAILER APPLICATION</i>	☞ VS3RA DERIVED DESIGNATION (DERIVED FROM DUAL AXLE REEFER BASE SPECIFICATIONS/OPTIONS)
<i>GROSS VEHICLE WEIGHT RATING</i>	☞ 80,000 LBS GVWR FOR USE W/(3) AXLE TRAILER
<i>INTERNATIONAL IMPORTATION SPECIFICATIONS</i>	☞ FRENCH/ENGLISH VIN LABEL REQD FOR IMPORT TO CANADA AND QAI CERTIFICATION
<i>GREENHOUSE GAS COMPLIANCE</i>	THIS TRAILER IS NOT U/TMC GHG2 CERTIFIED, GHG2 CERTIFICATION MAY REQUIRE ADDL OPTIONS/COSTS
<i>FOAM COMPOSITION</i>	TRAILER CONTAINS NON-HFC FOAM; MAY BE SOLD OR USED IN STATE W/ HFC RESTRICTION
<i>DQS UPDATE NUMBER</i>	DQS UPDATE #181 (2/10/23)

### 2-Dimensions

<i>LENGTH</i>	53'0" OVERALL LENGTH
<i>OVERALL HEIGHT</i>	13'6" O/A HEIGHT ON 46-1/2" FIFTH HT FOR 107-1/8" POST HT
<i>WIDTH</i>	102-3/8" OVERALL WIDTH

### 3-Deck

<i>DECK TYPE</i>	STRAIGHT DECK
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### 4-Front Subframe

<i>FRONT SUBFRAME</i>	4-1/4" DEEP BOX BEAM DESIGN FRONT SUBFRAME
<i>APPROACH PLATE</i>	☞ 3GA (1/4" NOM) HIGH STRENGTH STEEL APPROACH PLATE (TWO PIECE CONSTRUCTION)
<i>KINGPIN PLATE</i>	3GA HIGH STRENGTH STEEL FULL WIDTH KINGPIN PLATE
<i>KINGPIN TYPE</i>	AAR HARDNESS CRUCIFORM KINGPIN
<i>KINGPIN LOCATION</i>	36" KINGPIN LOCATION
<i>CONDUIT</i>	(1) CONDUIT THROUGH FRONT SUB 30-1/2" FROM C/L ON ROADSIDE
<i>COVER PLATE</i>	EXTRUDED ALUM COVER ON FRONT FACE OF APPROACH PLATE

### 5-Support Legs

<i>SUPPORT LEG LOCATION</i>	SUPPORT LEG LOCATION OF 105" FROM C/L OF KINGPIN
<i>SUPPORT LEG CRANK LOCATION</i>	ROADSIDE SUPPORT LEG CRANK LOCATION

*SUPPORT LEG BRACING*

⇒ IID SUPPORT LEG REINF SYS (INCLS: HD SHUTTLE RUN X-BRACE REINF, HD SIDE POSTS 1ST(4)PNLS & 12"MAX CL

*SUPPORT LEG REINFORCING*

⇒ 3/4" GRADE 50 "SQUARE BAR" REINF AT WING PLATE FLANGES FORE & AFT

*WING PLATE MATERIAL*

⇒ HIGH STRENGTH WING PLATE MATERIAL HT80 VS STD

*SUPPORT LEGS*

⇒ JOST MODEL A451 MAGNUM SUPPORT LEGS W/10-YR. WARRANTY & 10"X10" ULTRA LOW PROFILE CUSHION FOOT

#### **6-Frame, Rails & Crossmembers**

*BOTTOM RAILS*

11" DEEP HEAVY DUTY EXTRU ALUM BOTTOM RAILS, TAPERED FRT & REAR

*BOTTOM RAILS*

⇒ DO NOT NOTCH OUT BOTTOM RAIL AT REAR

*CROSSMEMBERS FRONT SUB TO LEGS*

4" ALUM I BEAM CMEM'S W/(4) RIVET ENDCLIPS ON 12" C/L FRONT SUB TO SUPPORT LEGS

*CROSSMEMBERS OVER SUPPORT LEGS*

(5) 4" STEEL I BEAM CMEMS W/(4) RIVET ENDCLIPS ON 12" C/L OVER SUPPORT LEGS.

*CROSSMEMBERS LEGS TO REAR SUB*

5-1/2" ALUM I SHAPE CMEMS W/(4) RIVET ENDCLIPS ON 12" C/L SUPPORT LEGS TO REAR SUB

*CROSSMEMBERS OVER REAR SUBFRAME*

4" STEEL I BEAM CMEMS W/(4)RIVET ENDCLIPS ON 12" C/L W/STD REINF OF (1) ADDL CMEM IN REAR 34"

*CROSSMEMBERS OVER REAR SUBFRAME*

⇒ (2) ADDL STEEL CMEMS IN REAR 58" ON 6" C/L

*PREP FOR FUEL TANK FOR USE WITH SIDE SKIRTS*

⇒ 50 GAL FUEL TANK PREP (UTM STD) LAST(2)CMEM OVER LEGS & 1ST CMEM IN BAY ARLA PUNCHED FOR TANK

#### **7-Rear Subframe**

*HORIZONTAL DOCK BUMPER*

BASE SPEC: 7"HRZ BMPR W/ 1/4" REINF PLATE & 2"ADDL DOCK LOCK CLEARANCE X11"LG @ C/L OF BUMPER

*RUBBER DOCK BUMPERS*

⇒ (1) PAIR POLYURETHANE DOCK BUMPERS 5/8" PROUD W/EMBEDDED STUD

*VERTICAL & HORIZONTAL DOCK BUMPER*

BASE SPEC: DOT VERT W/NONSLIP 7" HORIZONTAL 22" MAX GROUND CLRN; MEETS IHS-30% OFFSET TEST

*VERTICAL & HORIZONTAL DOCK BUMPER*

⇒ DOT BMPR WELD-ON VERT & BOLT-ON NONSLIP HRZ 21"MAX GRND CLR, W/IN LESS 4"OAW EA SIDE FOR 7"BUMPER

#### **8-Suspension/Axles/Actuation**

*SLIDER SUSPENSION LOCATION*

70" REAR SUSPENSION LOCATION AND 166" FORWARD SUSPENSION LOCATION FOR 96" OF SLDR TRAVEL

*OIL SEALS*

CONMET PREMIUM OIL SEALS (INCL W/ CONMET PRESET+ WHEEL END SYSTEM)

*AIR BRAKE CHAMBERS*

BENDIX ENDURASURE 3030 AIR BRAKE CHAMBERS

*AIR ACTUATION*

ONE TANK AIR ACTUATION SYSTEM W/SPRING BRAKES

<i>SLACK ADJUSTERS</i>	BENDIX VERSAJUST AUTOMATIC SLACK ADJUSTERS FOR USE W/BENDIX ENDURASURE OR TSE BRAKE CHAMBERS
<i>HUBODOMETER</i>	➤ STEMCO HUBODOMETER MTD R/S FRONT AXLE
<i>DUST SHIELDS</i>	➤ DUST SHIELDS FOR 16-1/2" X 7" BRAKES FOR USE WITH TRIDEM
<i>AIRRIDE DUMP VALVES</i>	HENDRICKSON AUTOMATIC DUMP VALVE
<i>BRAKE LINING STYLE</i>	HENDRICKSON HXS BRAKE LINING STYLE FOR USE W/ INTRAAX
<i>AXLE SPINDLE NUTS</i>	CONMET SPINDLE NUT (INCL. W/ CONMET PRESET+ WHEEL END SYSTEM)
<i>HUB PILOTED SYS W/OUTBOARD DRUMS FOR 16-1/2" X 7" BRAKES</i>	10 STUD HUB PILOTED S'S W/OUTBRD CAST DRUMS W/16-1/2"X 7"BRKS(STD W/CONMET PRESET+WHEEL END SYS)
<i>ANTILOCK BRAKE SYSTEMS (ABS)</i>	BENDIX TABS-8 ADVANCED W/ROLL STABILITY 2S/1M ABS
<i>WHEEL BEARING LUBRICATION</i>	FACTORY CHOICE 80W-90 OIL
<i>ANTI-DOCK WALK DEVICES</i>	➤ HENDRICKSON ANTI DOCK WALK DEVICE FOR USE WITH MANUAL DUMP VALVE
<i>WHEEL SEPARATOR PLATES</i>	➤ NYLON WHEEL GUARD SEPARATOR PLATE BTWN INNER WHEEL & HUB FOR USE WITH TRIDEM
<i>AXLE MANUFACTURER</i>	HENDRICKSON "VENTED" AXLES
<i>AXLE SPINDLE TYPE</i>	➤ P-SPINDLE TYPE FOR USE WITH TRIDEM & CONMET PRESET PLUS WHEEL END SYSTEM
<i>AUTOMATIC TIRE INFLATION SYSTEM</i>	➤ HEND TIREMAAX PRO TIRE INFL SYS W/WARN LGT ON FRT CRNR FOR USE W/TRIDEM (RETAINS CNMT 8YR WRTY)
<i>LOAD SCALE KIT</i>	➤ HENDRICKSON AKLS1006 LOAD SCALE (INCLS MANUAL DUMP VALVE) IN FULLY ENCLOSED POLYCARBONATE BOX
<i>WHEEL BEARINGS (CONES) AND RACES (CUPS) MANUFACTURER</i>	CONMET BEARINGS (INCL W/ CONMET PRESET+ WHEEL END SYSTEM)
<i>HENDRICKSON AIRRIDE SYSTEMS WITH INTEGRAL AXLES</i>	➤ HENDRICKSON HKANT 69K23 TRIAXLE AIRRIDE/AXLE SYSTEM, 60" AXLE SPACING
<i>SLIDER PIN RELEASE MECHANISM</i>	➤ <b>**NOTE**</b> HENDRICKSON QUIK-DRAW AIR OPERATED SLIDER REPOSITIONING SYSTEM INCLUDED IN SUSPENSION
<i>CONMET WHEEL END SYSTEMS</i>	BASE SPEC:CONMET PRESET+IRON HUB SYSTEM,INCL:CONMET PREMIUM SEAL,BEARING,SPACER &SPINDLE NUT

**9-Front Wall**

<i>FRONT CORNER POST</i>	BASE SPEC: .080 EXTRUDED ALUM 4-3/4" RADIUS FRONT CORNER POST WITHOUT INSERT RECEIVERS
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*FRONT WALL POSTS*

1" "J" EXTRU ALUM FRT WALL POST W/(2) ADDL 3-1/4" DEEP STEEL REEFER UNIT SUPPORT POSTS

*FRONT PANELS*

.040 ALUM FRONT PANELS

*GLADHANDS AND RECEPTACLE*

GLADHANDS (W/SCREEN) AND RECEPTACLE MOUNTED ON AN ALUM EXTRU OFFSET TO R/S 30"

*REFRIGERATION UNIT OPENING COVER*

SHEET METAL COVER (INCLS SEALANT FULL PERIMETER OF OPENING)

*PREP FOR THERMO KING/CARRIER REEFER UNIT*

PREP FOR LARGE FRONT MOUNT THERMO KING/CARRIER REEFER UNIT \*\*\*\*\*W/O ELECTR.C STANDBY\*\*\*\*\*

*10-Side Walls*

*SIDE PANELS*

.040 ALUM FLAT SIDE PANELS

*SIDE POSTS*

1" "J"SHAPE EXTRU ALUM SIDE POST W/16"MAX C/L FROM FRT TO REAR OF SUPT LEGS W/24" C/L LEGS TO REAR

*EXTERIOR SIDE WALL PROTECTION*

⌚ LOCATE RUB PROTECTOR @ APPROX 14-13/16" FOR TOP OF BOTTOM RAIL TO C/L OF RUB PROTECTOR

*EXTERIOR SIDE WALL PROTECTION*

⌚ RUB PROTECTOR(EXT S/WALL)EXTR AL W/END CAPS;(1)MTD ABOVE BOT RAIL FULL LGTH EA SIDE  
REQUIRED INFORMATION:

Dealer must specify location of (1) rub protector c/l of rub rail to top of bottom rail and location of (1) rub protector c/l of rub protector to bottom of top rail.

>> APPROX 14-13/16" FOR TOP OF BOTTOM RAIL TO C/L OF RUB PROTECTOR

*11-Roof*

*TOP RAILS*

6-3/8" HEAVY DUTY EXTRUDED ALUM TOP RAILS

*ROOF SKIN*

.025 ONE PIECE ALUM COIL ROOF SKIN

*ROOF BOWS*

⌚ 1" EXTRU ALUM "J" SHAPE ROOF BOWS ON 24" C/L

*12-Rear Doors*

*REAR DOOR TYPE*

UTM BARRIER DESIGN DOUBLE SWING REAR DOORS

*REAR DOOR PANELS*

⌚ .040 TRANSLITE POLISHED ALUMINUM DIAMOND PATTERN REAR DOOR PANELS

*REAR DOOR CROSSBRACES*

⌚ EXTEND REAR DOOR H.A. T SECTION FULL WIDTH WHERE IT MEETS WITH LOWER C/S VENT

*REAR DOOR LOCK RODS*

⌚ (1) ADDITIONAL REAR DOOR LOCK ROD ON BOTH DOORS (TOTAL 4)

*REAR DOOR HINGES*

⌚ REAR DOOR ANTI-THEFT TAMPER PROOF HARDWARE FOR THEFT PREVENTION

*VENT DOOR REAR*

⌚ 6" X 16" REAR VENT W/STAINLESS STEEL COVER ON LOWER C/S (INCLUDES VENT OPENING SCREEN)

*HOLDBACKS*

CHAIN LINK AND HOOK TYPE DOOR HOLDBACKS

REAR CASE & BUCKPLATE  
MATERIAL

SST REAR DOOR CASE FOR SWING DOORS

REAR CASE CORNER POSTS &  
HEADER

⇒ SHALLOW REAR WEDGE PORTION OF REAR SWING DOOR HEADER  
FROM 1-1/8" TO 1/2"

REAR GUSSETS

ENHANCED REAR CORNER GUSSET DESIGN FOR IMPROVED  
BOTTOM RAIL STRENGTH AT REAR OF TRAILER

GRAB HANDLE AT REAR OF  
TRAILER

⇒ 36" LONG CHROME PLATED GRABHANDLE ON C/S EDGE OF R/S  
DOOR

BUCKPLATE REINFORCING

⇒ 5/8" SST HORIZONTAL FLANGE ON REAR BUCKPLATE (VS STD 3/8")

REAR DOOR HINGE MATERIAL

NON-POLISHED ALUMINUM

REAR DOOR HINGE PIN  
MATERIAL

⇒ **\*\*NOTE\*\*** Stainless Steel Hinge Pins

CORROSION RESISTANT REAR  
DOOR HARDWARE

⇒ CORROSION RESIST ELECTROPOLISHED SST REAR DOOR  
HARDWARE SWING DRS (INCL NON-POLISHED ALUM HINGES)

#### 14-Floor

FLOOR TYPE

⇒ 1-3/8" NOM HD EXTRU ALUM HIGH WEAR DRY FRT FLOOR  
KNURLED

FLOOR TURN UP

10" HIGH 3/16" HEAVY DUTY EXTRU ALUM NON-TAPERED W/B  
INTEGRAL W/FLOOR (IN CLUDES REINFORCING)

TROUGHS

EXTRU ALUM TROUGH FRONT & REAR

DRAINS

(2) DRAINS FRONT AND (2) REAR

REAR THRESHOLD

HEAVY DUTY EXTRU ALUM WEDGE TYPE REAR THRESHOLD W/(4)  
DOCK BOARD GUIDE PLATES

FORK LIFT REINFORCING

BEARING GRID SYS AT REAR W/HDWD FILLERS FULL LENGTH &  
ALUM I CORES REAR 36" OF FLR IN CTR 68"

STUB POSTS

SIDEWALL STUB POST ON 48" C/L

#### 15-Insulation

INSULATION TYPE

POLYURETHANE INSULATION FOAMED IN PLACE

FRONT WALL THICKNESS

4" THICK FRONT WALL

SIDE WALL THICKNESS

2" THICK SIDE WALL

ROOF THICKNESS

⇒ 2" ROOF INSULATION

FLOOR THICKNESS

⇒ 2" FLOOR INSULATION

REAR DOOR THICKNESS

3" THICK REAR DOORS

CROSSMEMBER FLOOR  
FILLERS

HARDWOOD FLOOR FILLERS FULL LENGTH

FLOOR UNDERSKIN

.035 THERMOPLASTIC FLOOR UNDERSKIN

#### 16-Lining

<i>FRONT WALL LINING</i>	.065 (NOM) VERSITEX-UTILITY VR2U FRONT WALL LINING
<i>SIDE WALL LINING</i>	☛ .085 (NOM) VERSITEX-UTILITY VR3U SIDE WALL LINING ***SEE NOTES FOR DISCLAIMER***
<i>ROOF LINING</i>	.065 (NOM) VERSITEX-UTILITY VR2U ROOF LINING
<i>REAR DOOR LINING</i>	.065 (NOM) VERSITEX-UTILITY VR2U REAR DOOR LINING
<i>WEARBAND</i>	☛ 6" EXTRA HEIGHT EXTRUDED ALUM STD DUTY WEARBAND TOTAL OF 16" INCL REINFORC'NG BEHIND WEARBAND
<i>LOGISTIC RAILS</i>	☛ LOCATE E-TRACK @ 54" FROM TOP OF FLOOR TO C/L OF TRACK
<i>LOGISTIC RAILS</i>	☛ (1) ROW SERIES "E" GALV RECESS MTD LOG TRACK ON SIDE WALLS REQUIRED INFORMATION: <u>Locate E-track _____ inches from centerline of track to top of floor.</u> >> 54" FROM TOP OF FLOOR TO C/L OF TRACK
<i>LOGISTIC RAIL SPL MODIFICATION</i>	☛ REINFORCE "A" OR "E" TYPE LOG TRACK FOR DOUBLE DECKING
<i>WEARBAND ON REAR SWING DOORS</i>	☛ 16" HIGH X 1/8" SMOOTH ALUM WEARBAND W/BEVELED EDGES ON REAR SWING DOORS INCL HARDWOOD REINF
<i>REAR DOOR LINING COVER</i>	24" HIGH EXTRU ALUM REAR DOOR LINING EDGE PROTECTOR

*17-Electrical System*

<i>MAIN HARNESS</i>	UTM MOISTURE RESISTANT "MULTI- PURPOSE" HARNESS W/INTERNAL GROUND AND 7-WAY PLUG
<i>ELECTRICAL RECEPTACLE</i>	7-WAY ELECTRICAL RECEPTACLE W/O CIRCUIT BREAKERS
<i>CLEARANCE LIGHT QUANTITY</i>	☛ 2-3-4-5 CLEARANCE LIGHT PACKAGE (INCLS CLEARANCE LIGHT ON BTM RAIL ABOVE COMBO)
<i>SIDE MOUNTED DIRECTIONAL LIGHT</i>	GROTE SUPERNOVA LED COMBO SIDE MTD DIR/CLR'G LIGHT ON BRACKET BELOW BOTTOM RAIL EACH SIDE
<i>STOP/TAIL/TURN LIGHTS</i>	☛ GROTE 4"DIA SST SNAP-IN FLANGE MTD LED(10 DIODE) S/T/T LIGHTS (ENHANCES THEFT RESISTANCE)
<i>LICENSE LIGHT</i>	GROTE MICRONOVA L.E.D. LICENSE LIGHT
<i>CONSPICUITY TAPE LOCATION</i>	CONSPICUITY TAPE ON BOTTOM RAILS AND AT REAR OF TRAILER (FOR D.O.T. MINIMUM LOCATION)
<i>CONSPICUITY TAPE</i>	FACTORY CHOICE CONSPICUITY TAPE
<i>UPPER CLEARANCE LIGHTS</i>	☛ TRUCKLITE MODEL 35 PC RATED LED UPPER SIDE RAIL CLEARANCE LIGHTS
<i>LOWER CLEARANCE LIGHTS</i>	GROTE MICRONOVA LED PC RATED LIGHT
<i>ABS (ANTI-LOCK) WARNING LIGHT</i>	GROTE MICRONOVA L.E.D. PC RATED LIGHT
<i>STOP/TAIL/TURN LIGHT CONFIGURATION</i>	GROUPED STOP/TAIL/TURN LIGHTS

REAR HEADER CLEARANCE LIGHTS

☞ (5) GROTE MICRONOVA L.E.D. P2 RATED MULTI-FUNCTION LIGHTS ON REAR SWING DOOR HEADER

**18-Finish Specifications**

TOP FRONT & TOP SIDE RAIL FINISH

NATURAL ALUM FINISH TOP FRONT & TOP SIDE RAILS

BOTTOM SIDE RAIL FINISH

NATURAL ALUM FINISH BOTTOM SIDE RAILS

FRONT CORNER POST FINISH

NATURAL ALUMINIUM FINISH FRONT CORNER POSTS

FRONT PANEL FINISH

PREPAINTED WHITE FRONT PANELS

SIDE PANEL FINISH

PREPAINTED WHITE SIDE PANELS

REAR DOOR PANEL FINISH

PREPAINTED WHITE REAR DOOR PANEL FINISH

FRONT APPROACH PLATE FINISH

NATURAL ALUM FINISH FRONT APPROACH PLATE

FRONT SUBFRAME ASSEMBLY FINISH

FRONT SUBFRAME FULLY IMMERSSED IN BLACK RUST PREVENTATIVE FINISH (ZERO VOC HOT DIP)

SUPPORT LEG FINISH

UTM BLACK SCHARPF ON SUPPORT LEGS

REAR SUBFRAME FINISH

UTM BLACK SCHARPF ON REAR SUBFRAME

REAR CASE FINISH

SATIN FINISH STAINLESS STEEL REAR CASE

VRTCL & HORZNTL DOCK BUMPR FINISH

UTM BLACK ENAMEL FINISH ON HORIZ DOCK BUMPER; BLACK SCHARPF ON VERTICAL DOCK BUMPER

ROOF EXTERIOR FINISH

NATURAL ALUM ROOF EXTERIOR FINISH

TRAILER ELECTROLYSIS/CORROSION PREVENTION

☞ CORROSION RESISTANT PACKAGE (INCLS 8 MIL THICK BARRIER,FOAM TAPE AND CAULKING)

**19-Miscellaneous**

MUDFLAP TYPE

☞ BLACK PLASTIC ANTI-SAIL MUDFLAPS W/UTM LOGO, MTD WITH STEEL REINFORCING STRAPS

PERMIT HOLDER

☞ TRUCKLITE #97960 ROUND PERMIT HOLDER MOUNTED ON FRONT WALL LOWER R/S

SIDE MOUNTED AERODYNAMIC AIR DEFLECTORS

BASE SPEC:USS120A-4 "ADVANCED" AERODYNAMIC BLACK SIDE SKIRT MTD BELOW BOTTOM RAIL

**20-Tires and Wheels**

22.5"X8.25"STANDARD WIDTH WHEELS

☞ 12 - 22.5X8.25 ALCOA HIGH POLISH ULTRA ONE ALUMINUM 10 H/P#ULT397

22.5" STANDARD PROFILE TIRES

☞ 12 - 11R 22.5 MICH XTE 14P 41.00" TIRE DIA.LOAD RANGE'G' MAX SPEED RATED @75 MPH;TRRL =<6.0



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**Special Instructions**

None.

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**Weight**

Total Weight 15,345 lbs. (+/- 3%)

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**Terms & Conditions**