

SCREEN VIBRATION REPORT

JD Alpha Services Limited

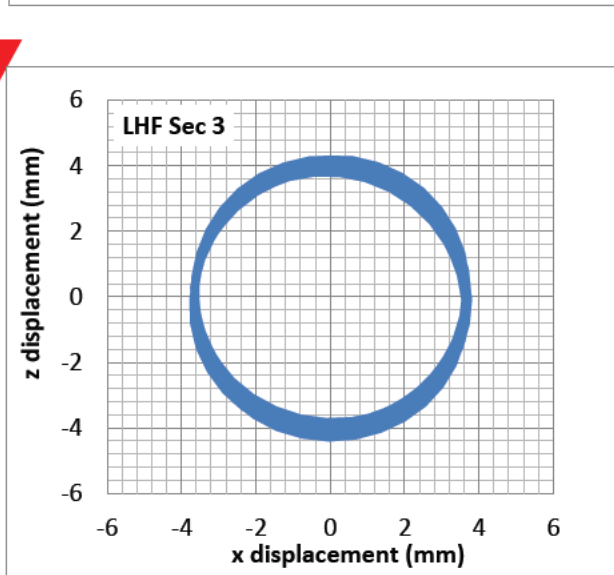
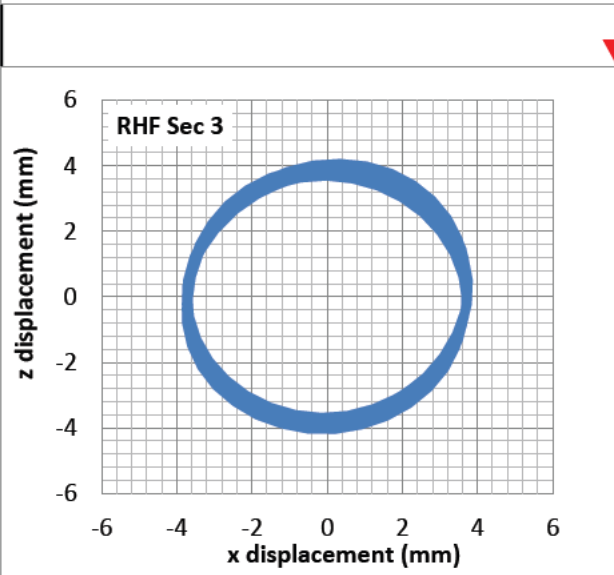
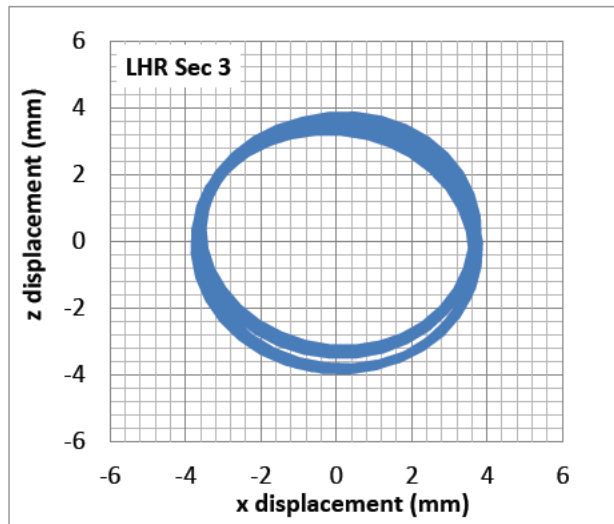
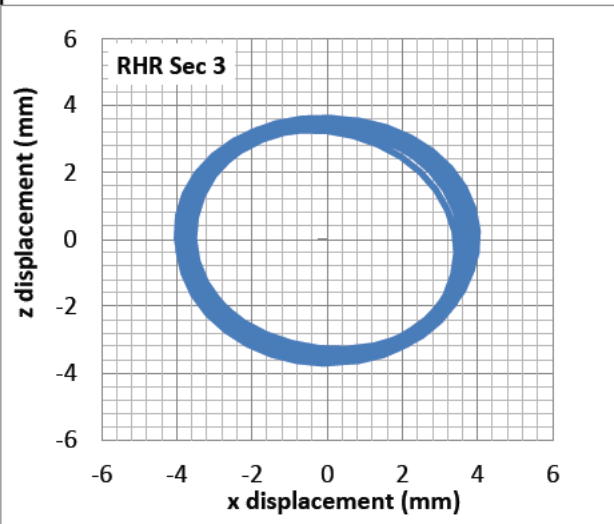
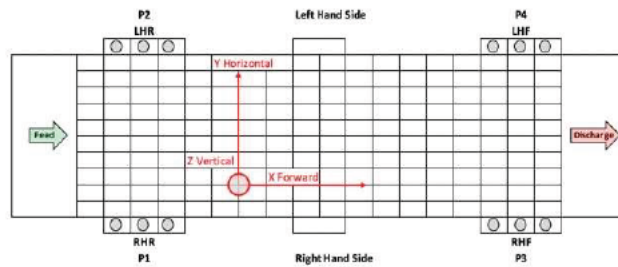


Brand / Model: HRI 1.6m x 4.2m V11 Double Deck

Serial No: [REDACTED]

Date	17.08.2022	Direction	Uniflow	Speed	937 rpm	Acceleration (Av) Z	3.58
Condition	Loaded	TPH		Hz	15.63 Hz	Tester Name	David Blench

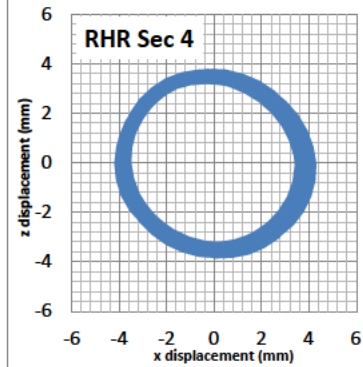
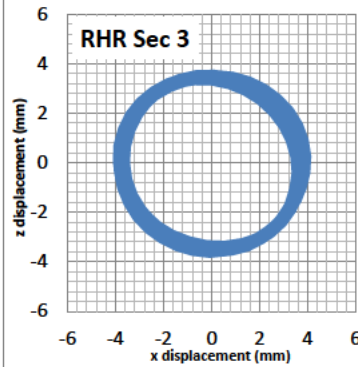
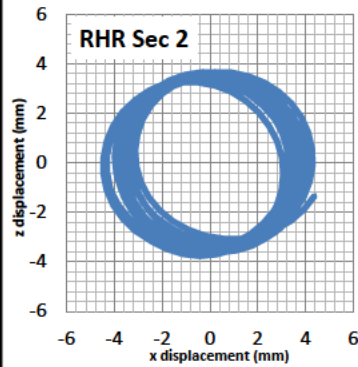
COMMENTS



ORBITS

RHR

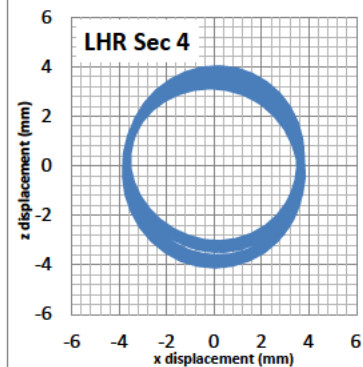
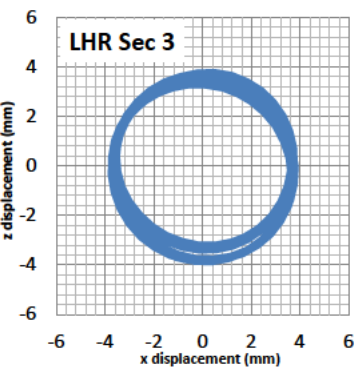
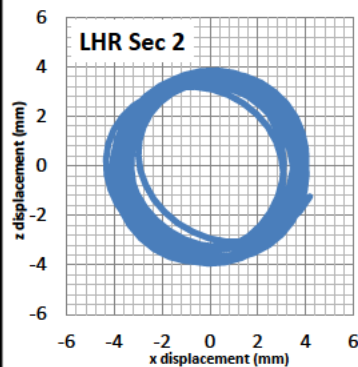
Sec 2: $D_x = 7.55$ mm, $D_z = 6.96$ mm; Stroke = 10.27 mm; Stroke Angle = 42.68°
 Sec 3: $D_x = 7.57$ mm, $D_z = 6.97$ mm; Stroke = 10.29 mm; Stroke Angle = 42.61°
 Sec 4: $D_x = 7.57$ mm, $D_z = 6.96$ mm; Stroke = 10.28 mm; Stroke Angle = 42.58°



COMMENTS:

LHR

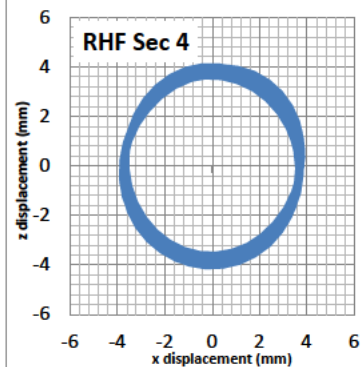
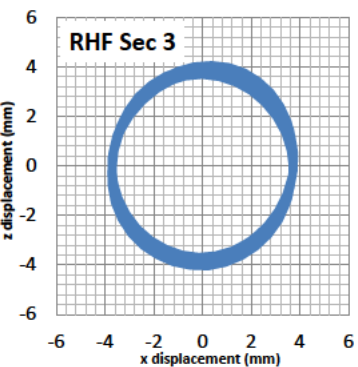
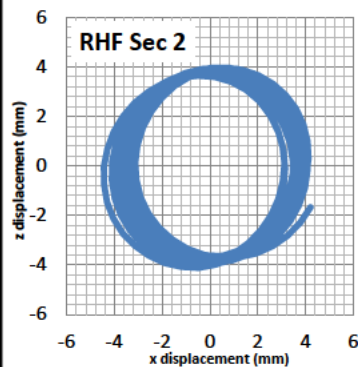
Sec 2: $D_x = 7.32$ mm, $D_z = 7.07$ mm; Stroke = 10.18 mm; Stroke Angle = 44.01°
 Sec 3: $D_x = 7.35$ mm, $D_z = 7.07$ mm; Stroke = 10.19 mm; Stroke Angle = 43.89°
 Sec 4: $D_x = 7.35$ mm, $D_z = 7.09$ mm; Stroke = 10.21 mm; Stroke Angle = 43.96°



COMMENTS:

RHF

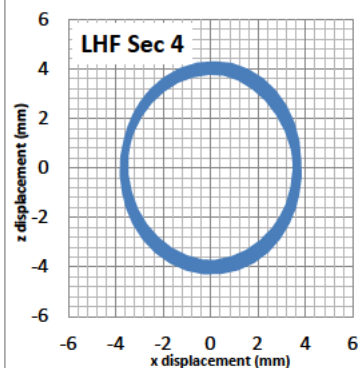
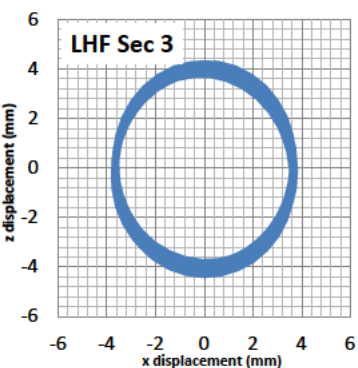
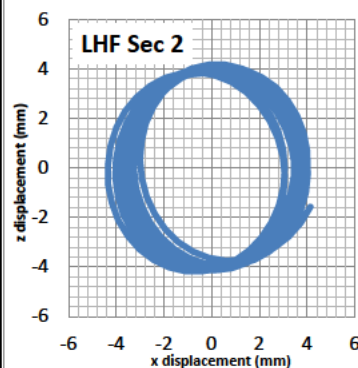
Sec 2: $D_x = 7.42$ mm, $D_z = 7.69$ mm; Stroke = 10.69 mm; Stroke Angle = 46.04°
 Sec 3: $D_x = 7.44$ mm, $D_z = 7.72$ mm; Stroke = 10.72 mm; Stroke Angle = 46.03°
 Sec 4: $D_x = 7.44$ mm, $D_z = 7.71$ mm; Stroke = 10.71 mm; Stroke Angle = 46.03°



COMMENTS:

LHF

Sec 2: $D_x = 7.28$ mm, $D_z = 8.02$ mm; Stroke = 10.84 mm; Stroke Angle = 47.78°
 Sec 3: $D_x = 7.31$ mm, $D_z = 8.03$ mm; Stroke = 10.86 mm; Stroke Angle = 47.7°
 Sec 4: $D_x = 7.3$ mm, $D_z = 8.02$ mm; Stroke = 10.85 mm; Stroke Angle = 47.67°

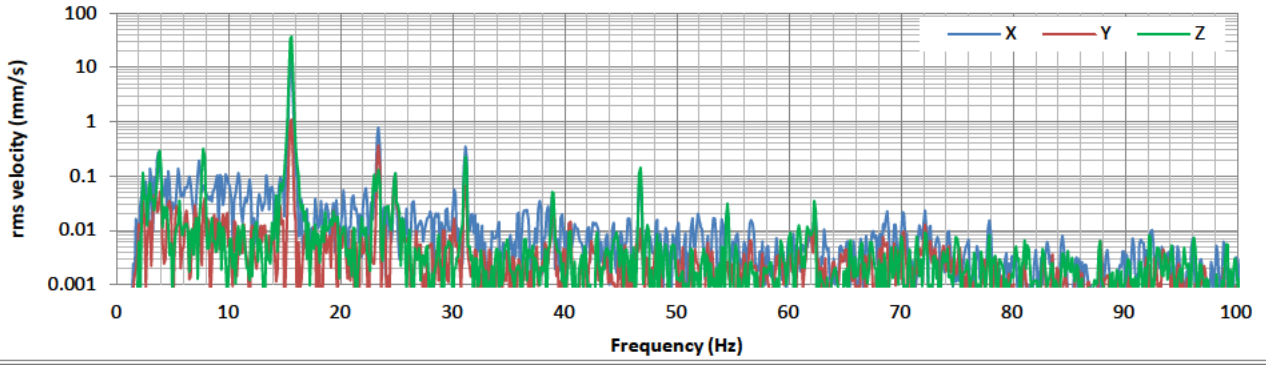


COMMENTS:

FREQUENCY

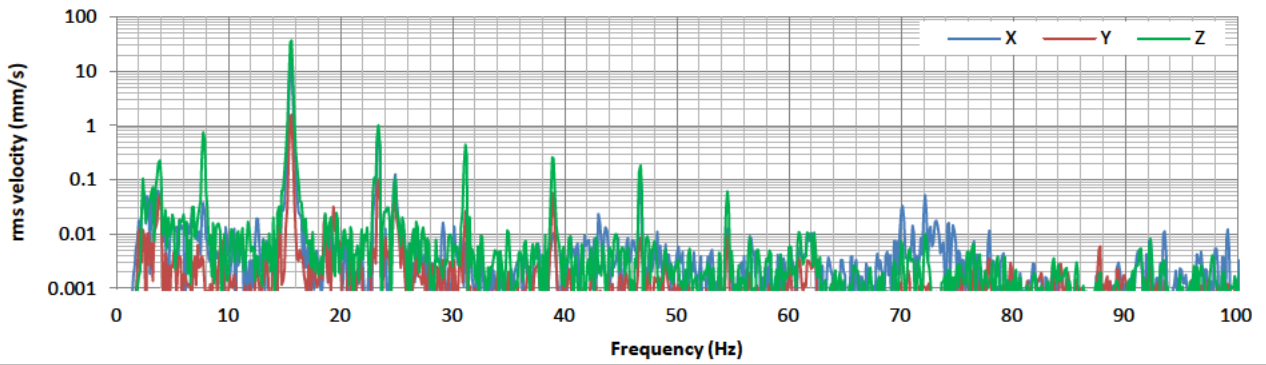
RHR

Peak: x = 14.87mm/s, 15.63Hz; y = 1.09mm/s, 15.63Hz; z = 36.51mm/s, 15.63Hz



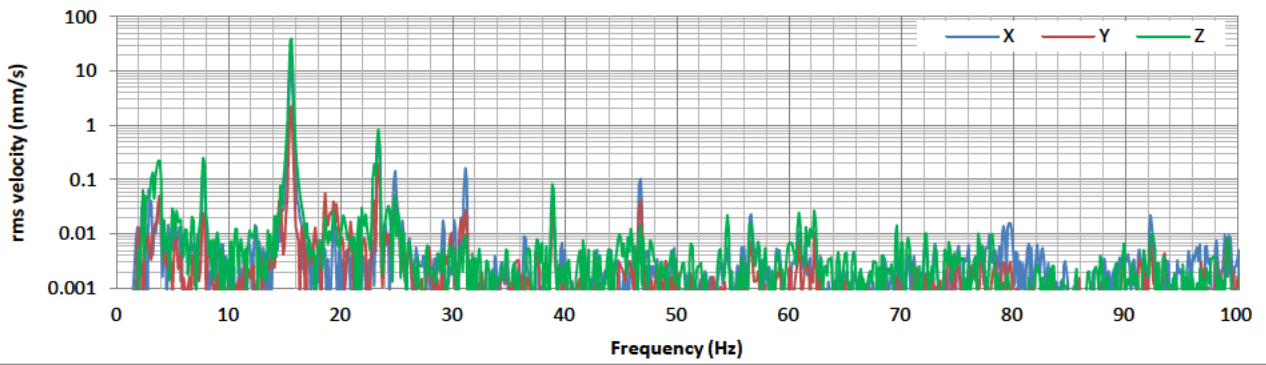
LHR

Peak: x = 15.44mm/s, 15.63Hz; y = 1.58mm/s, 15.63Hz; z = 36.63mm/s, 15.63Hz



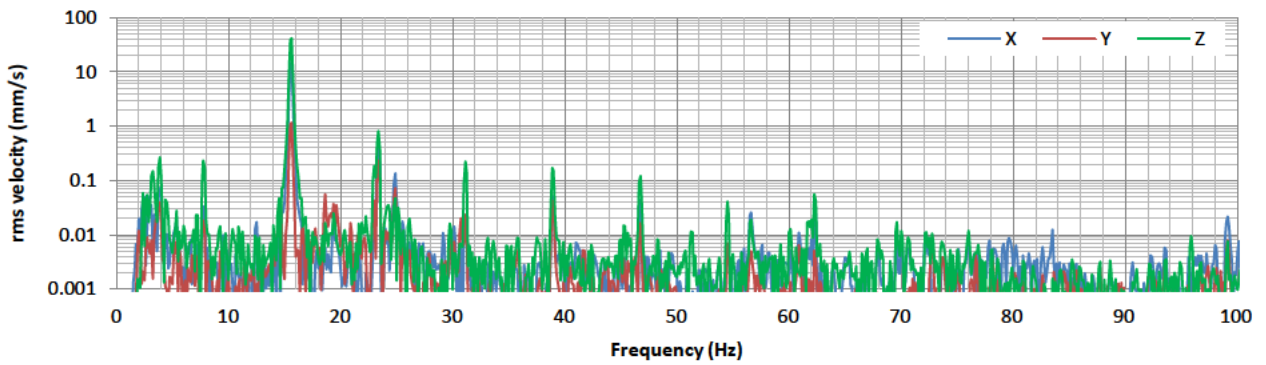
RHF

Peak: x = 14.98mm/s, 15.63Hz; y = 2.23mm/s, 15.63Hz; z = 39.24mm/s, 15.63Hz



LHF

Peak: x = 15mm/s, 15.63Hz; y = 1.16mm/s, 15.63Hz; z = 41.37mm/s, 15.63Hz



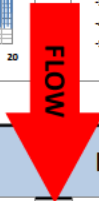
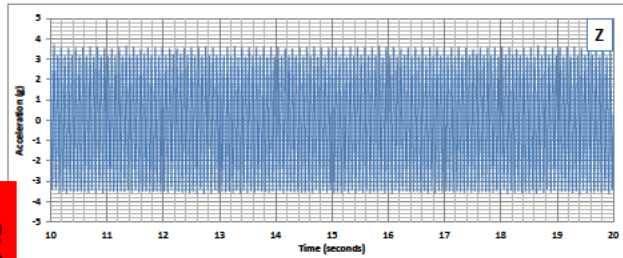
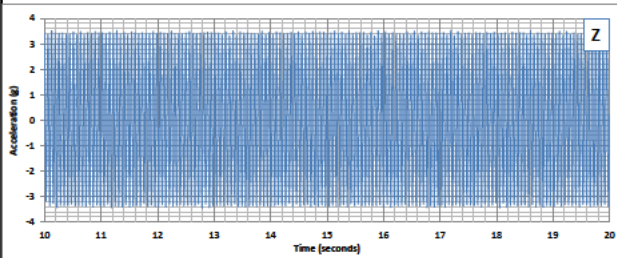
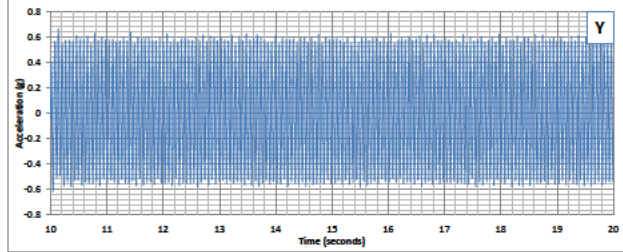
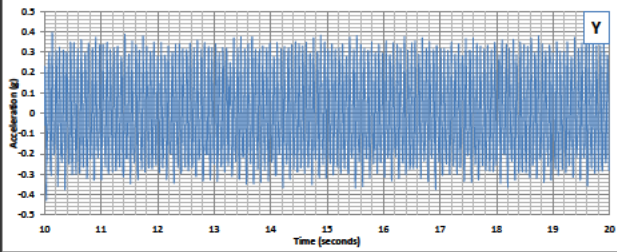
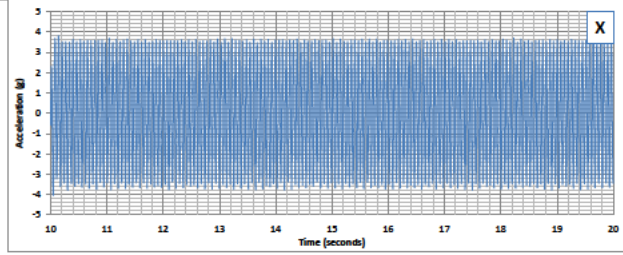
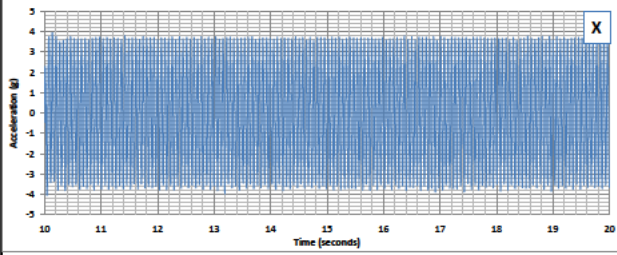
ACCELERATION

RHR

$A_x = 3.56g \mid -3.58g$
 $A_y = 0.58g \mid -0.55g$
 $A_z = 3.34g \mid -3.51g$

LHR

$A_x = 3.56g \mid -3.58g$
 $A_y = 0.58g \mid -0.55g$
 $A_z = 3.34g \mid -3.51g$

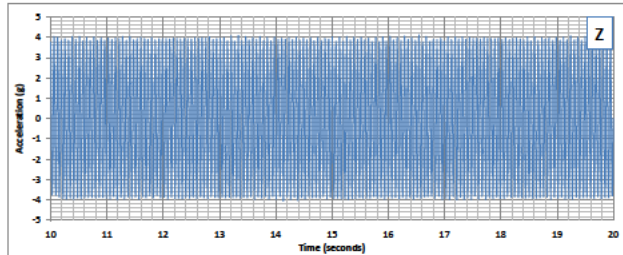
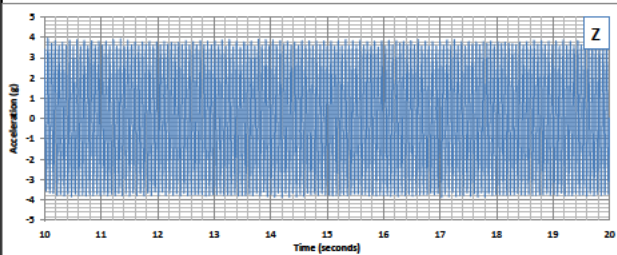
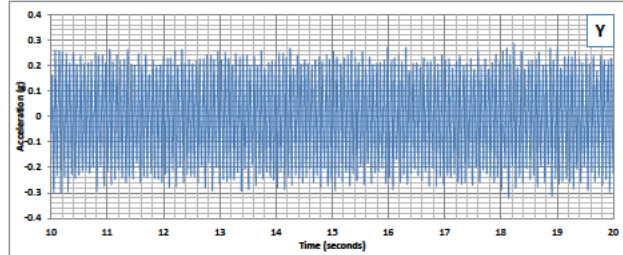
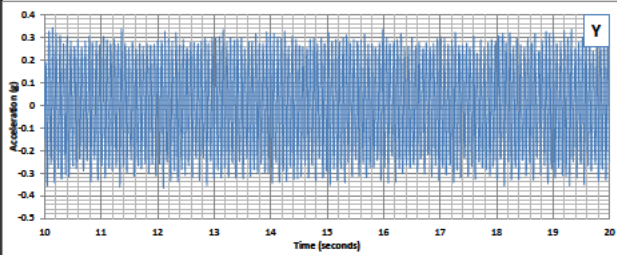
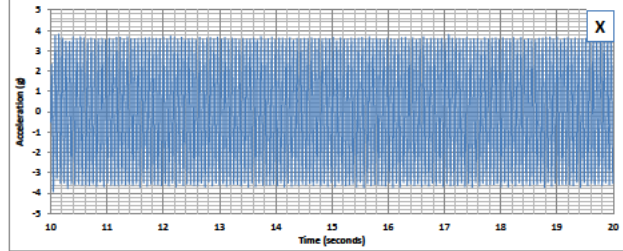
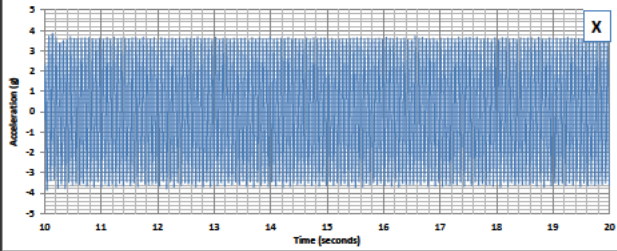


RHF

$A_x = 3.59g \mid -3.57g$
 $A_y = 0.28g \mid -0.28g$
 $A_z = 3.7g \mid -3.74g$

LHF

$A_x = 3.59g \mid -3.59g$
 $A_y = 0.21g \mid -0.22g$
 $A_z = 3.94g \mid -3.89g$



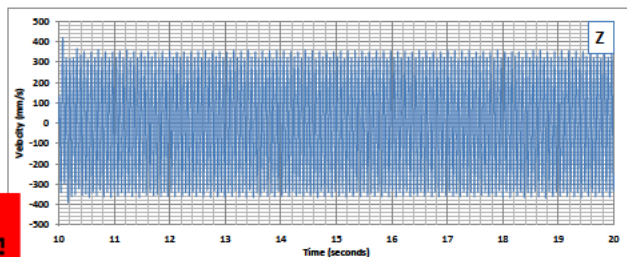
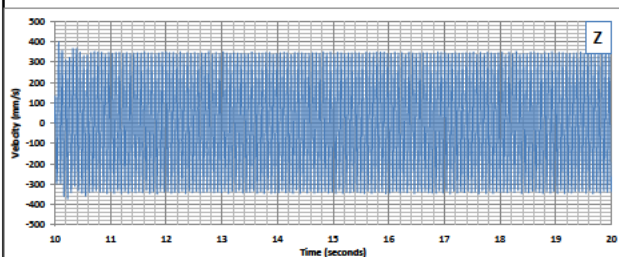
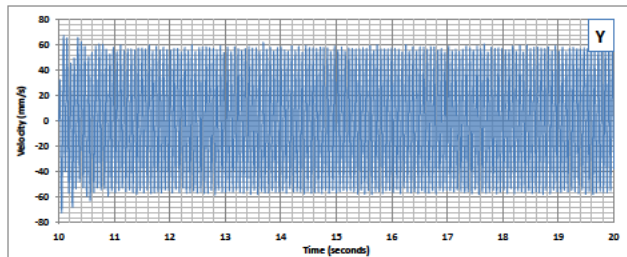
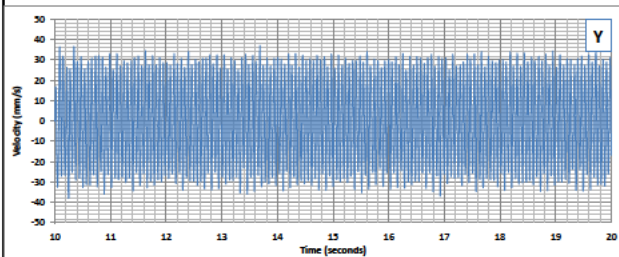
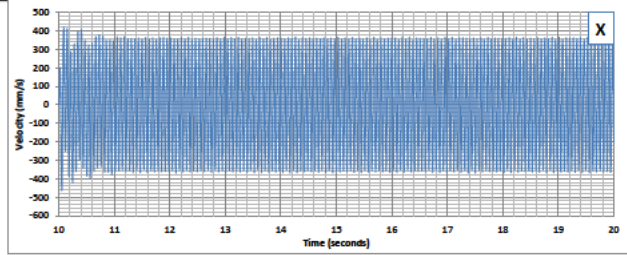
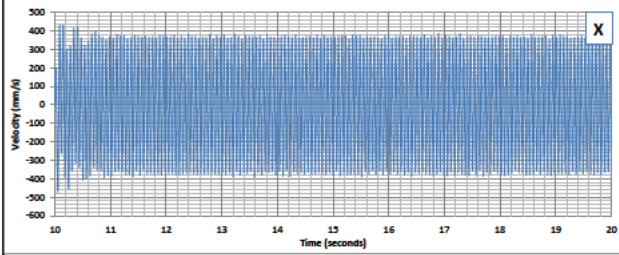
VELOCITY

RHR

$A_x = 368.04\text{mm/s}$ | -370.97mm/s
 $A_y = 30\text{mm/s}$ | -29.54mm/s
 $A_z = 344.2\text{mm/s}$ | -339.04mm/s

LHR

$A_x = 358.65\text{mm/s}$ | -359.34mm/s
 $A_y = 57.02\text{mm/s}$ | -55.56mm/s
 $A_z = 337.25\text{mm/s}$ | -349.82mm/s



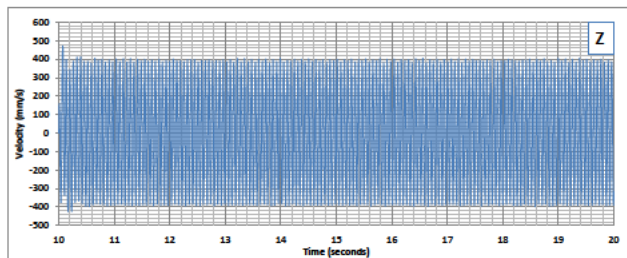
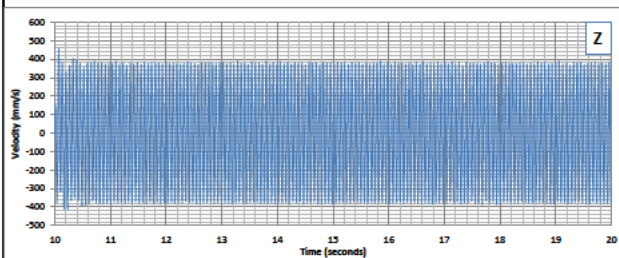
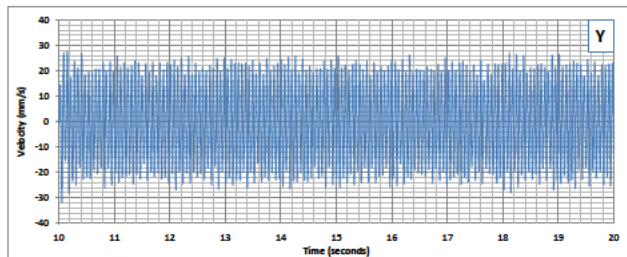
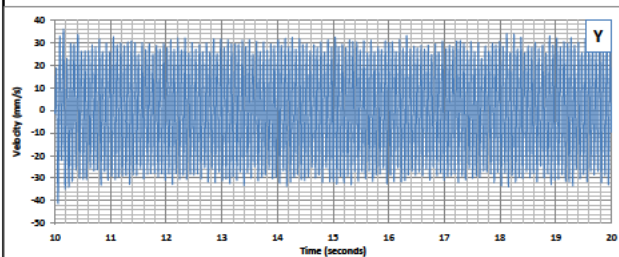
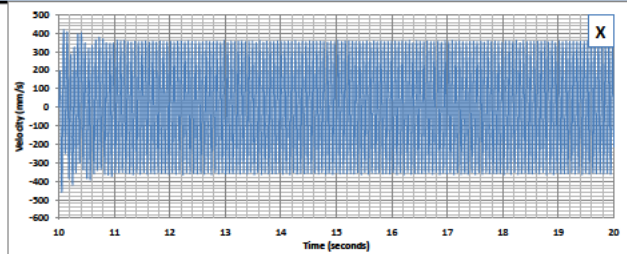
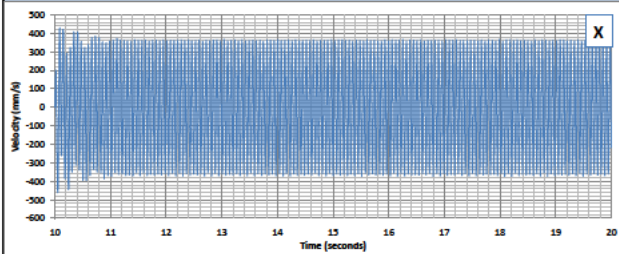
FLOW

RHF

$A_x = 362.14\text{mm/s}$ | -363.17mm/s
 $A_y = 28.82\text{mm/s}$ | -29.17mm/s
 $A_z = 376.17\text{mm/s}$ | -377.95mm/s

LHF

$A_x = 356.13\text{mm/s}$ | -357.37mm/s
 $A_y = 21.99\text{mm/s}$ | -21.92mm/s
 $A_z = 390.45\text{mm/s}$ | -389.04mm/s



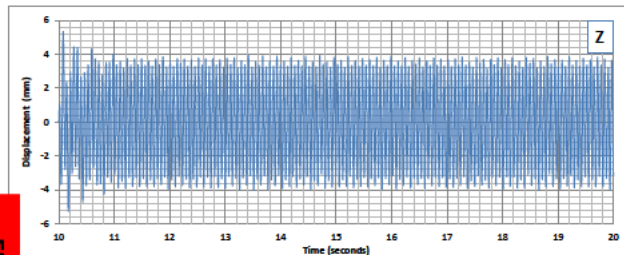
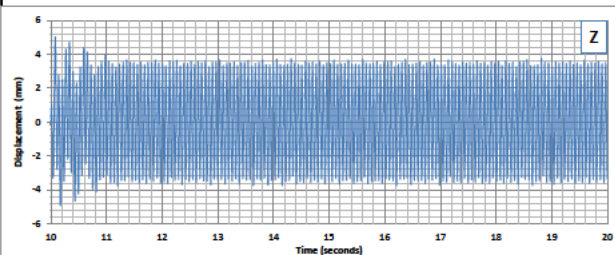
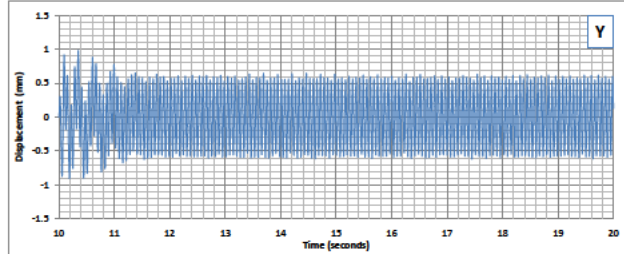
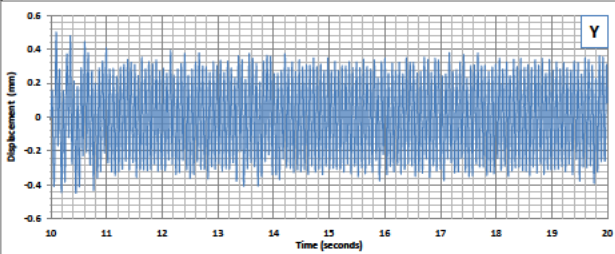
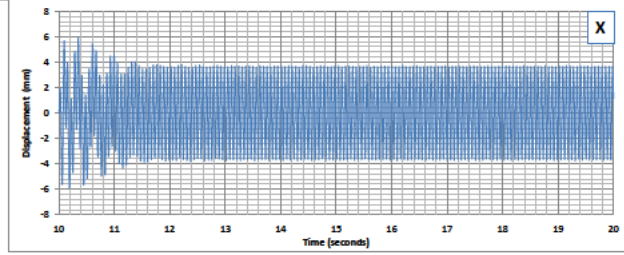
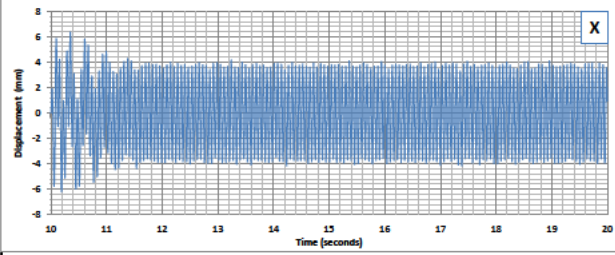
DISPLACEMENT

RHR

$A_x = 3.77\text{mm} \mid -3.81\text{mm}$
 $A_y = 0.31\text{mm} \mid -0.31\text{mm}$
 $A_z = 3.48\text{mm} \mid -3.47\text{mm}$

LHR

$A_x = 3.67\text{mm} \mid -3.68\text{mm}$
 $A_y = 0.58\text{mm} \mid -0.58\text{mm}$
 $A_z = 3.51\text{mm} \mid -3.56\text{mm}$



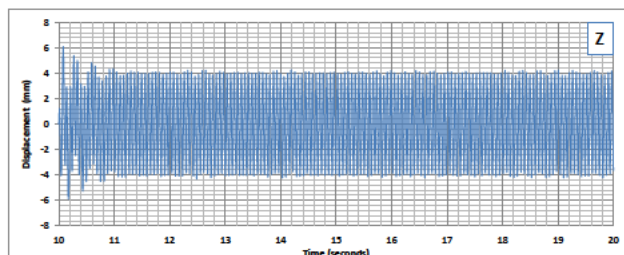
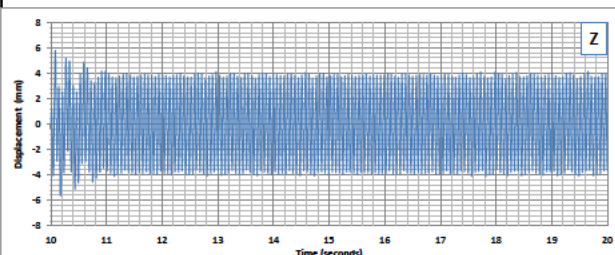
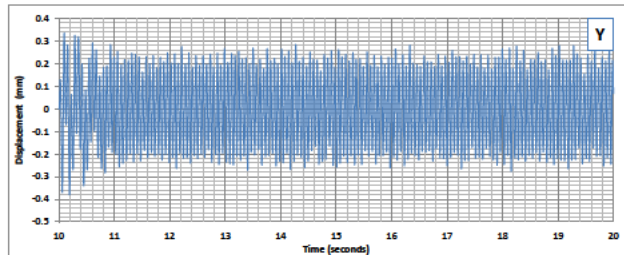
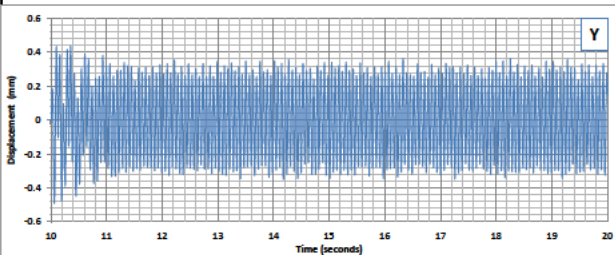
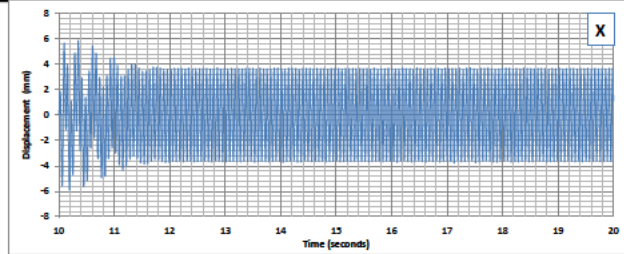
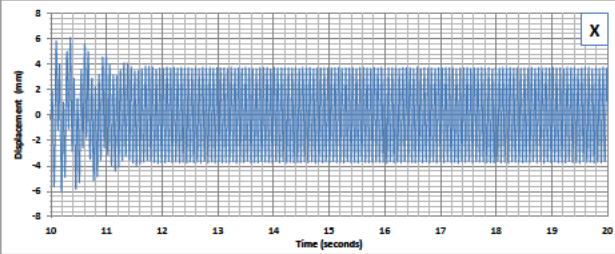
FLOW

RHF

$A_x = 3.71\text{mm} \mid -3.74\text{mm}$
 $A_y = 0.3\text{mm} \mid -0.3\text{mm}$
 $A_z = 3.84\text{mm} \mid -3.86\text{mm}$

LHF

$A_x = 3.65\text{mm} \mid -3.66\text{mm}$
 $A_y = 0.22\text{mm} \mid -0.22\text{mm}$
 $A_z = 4.01\text{mm} \mid -4\text{mm}$

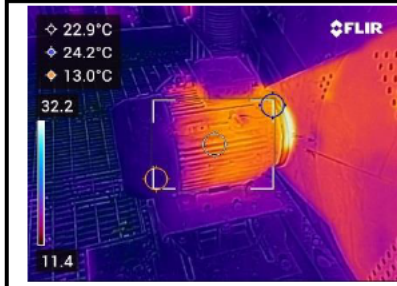


END OF REPORT

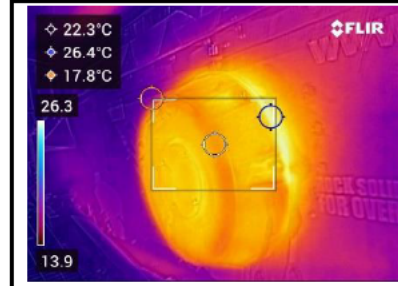
Screen 1 Inspection Sheet



Description: Drive End Bearing



Description: Motor



Description: Non-Drive Bearing

Temp °C:	21.2
Temp °C:	26.3
Temp °C:	17.1

Temp °C:	22.9
Temp °C:	24.2
Temp °C:	13

Temp °C:	22.3
Temp °C:	26.4
Temp °C:	17.8

Spring Heights (cm):

Right Hand Rear 1	35
Right Hand Rear 2	35
Right Hand Rear 3	
Right Hand Front 1	36
Right Hand Front 2	36
Right Hand Front 3	

Left Hand Rear 1	35
Left Hand Rear 2	35
Left Hand Rear 3	
Left Hand Front 1	36
Left Hand Front 2	36
Left Hand Front 3	

Noise Levels (dBa):

Screen	Min	Max
RHR	96.7	104.9
LHR	94.7	105.3
RHF	95.8	105.2
LHF	93.7	106.3

Comments: