

Originator		Cognizant Engineer		Ext./Phone#	Project	Account Number
Name	Kyle Ryan	Name	Kyle R/Vagesh P	509-372-8129/8169	ELIGO_HVE	

Dwg/Part Number	Rev	Part Description / Material	Serial Number	Qty
#254		Viton O-Ring/ V700-75(see attached spec sheet)		10
#358		Viton O-Ring/ V700-75(see attached spec sheet)		10

Used In (next higher assembly):

Vendor Name	PO/Contract Number
Atlantic Rubber	

**Data Package, Receiving/Inspection Remarks:**

Inspection Required Y/N	Visual Damage Y/N	Comments	Name/ Initials	Date Comp.

**Process Flow:**

#	Operation	Start Date	Work Area	Instructions	Name/ Initials	Date Comp.
1	Clean					
2	Vacuum Bake					
3	Control Point			Review/Approve RGA scan		
4	Wrap & Tag vacuum clean parts					

N.B.: A copy of this traveller must be submitted to the DCC each time the original is shipped with the associated part(s) and when the traveller has been completed.

#	Operation	Start Date	Work Area	Instructions	Name/ Initials	Date Comp.
5	Ship and Deliver/File paperwork			Please send to: 5 each of the Viton O-rings to LHO and LLO  File one copy of traveler with the DCC. <b>Note: Ship original traveler with these parts.</b>		
END: Go to Traveler or procedure associated with next higher assembly processing						

**Special Instructions (Handling/Packaging Constraints, Remarks, etc.) or Notes:**

10/25/2007 Packaged O-Rings and mailed to Caltech attn: Bob Taylor  
 - Kyle Ryan

N.B.: A copy of this traveller must be submitted to the DCC each time the original is shipped with the associated part(s) and when the traveller has been completed.

<b>advancedligo</b>	DCC Number: E070236-00-D
	Date Prepared: 10/11/07

<b>Required Y/N</b>	<b>Y/N</b>			

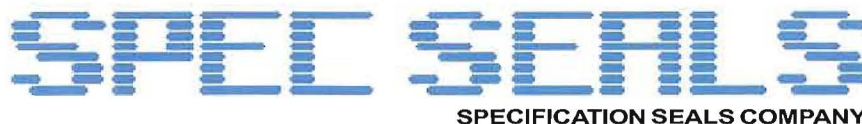
**Process Flow:**

#	Operation	Start Date	Work Area	Instructions	Name/ Initials	Date Comp.
1	Clean		Caltech	Clean and bake per ligo document E960022-B		
2	Vacuum Bake					
3	Control Point			Review/Approve RGA scan		
4	Wrap & Tag vacuum clean parts					
5	Ship and Deliver/File paperwork			Please send to: When cleaned these parts need to go to LLO  File one copy of traveler with the DCC. <b>Note: Ship original traveler with these parts.</b>		
END: Go to Traveler or procedure associated with next higher assembly processing						

**Special Instructions (Handling/Packaging Constraints, Remarks, etc.) or Notes:**

These are parts for the L1 HAM.
Parts will need to go to the Livingston site when cleaned. Parts are needed at Livingston by 11/13/07.

N.B.: A copy of this traveller must be submitted to the DCC each time the original is shipped with the associated part(s) and when the traveller has been completed.



## SPEC SEALS TECHNICAL REPORT V700-75 BLACK ASTM SPEC VITON COMPOUND

### GENERAL PROPERTIES

VITON is DuPont-Dow Elastomer's trade name for Fluorocarbon Elastomers. These compounds offer the best resistance to a combination of chemicals, weather, and compression set over a temperature range of -20F to +400F. SPEC SEALS' V700-75 meets all popular ASTM D2000/SAE J200 Specifications.

### SPEC SEALS V700-75

<u>ASTM Designation</u>	<u>ORIGINAL PROPERTIES</u>	<u>ASTM D2000 SPECIFICATION</u>	<u>LABORATORY PROPERTY</u>
	Durometer, Shore A	75 +/- 5	76
	Tensile, psi (MPa), Minimum	1450 (10)	1773 (12)
	Elongation, % Minimum	150	220
	Specific Gravity	-	1.85
A1-10	<u>HEAT AGE, 70 HRS @ 250 C</u>		
	Durometer Change, Points	+10	+2
	Tensile Strength Change, % Maximum	-25	+5
	Elongation Change, % Maximum	-25	-8
B38	<u>COMPRESSION SET, 22 HRS @ 200 C</u>		
	Original Deflection, % Maximum	15	10.8
C12	<u>RESISTANCE TO OZONE</u>		
	ASTM D1171, Method B	No Cracks	Pass
C20	<u>RESISTANCE TO OUTDOOR AGING</u>		
	ASTM D1171	No Cracks	Pass
EF31	<u>FUEL AGE, 70 HRS @23C in Reference Fuel C</u>		
	Durometer Change, Points	+/-5	-1
	Tensile Change, % Maximum	-25	-14
	Elongation Change, % Maximum	-20	-12
	Volume Change, %	0/+10	+3
EO88	<u>FLUID RESISTANCE, 70 HRS @200C in Stauffer 7700/SAE Fluid No. 2</u>		
	Durometer Change, Points	-15/+5	-6
	Tensile Change, % Maximum	-40	-21
	Elongation Change, % Maximum	-20	-14
	Volume Change, % Maximum	+25	+8
F15	<u>LOW TEMPERATURE BRITTLENESS</u>		
	ASTM D2137, Method A, 9.3.2		
	3 Minutes @ -25 C	Non-Brittle	Pass

### SPECIFICATIONS MET

ASTM D2000-01 Grade M6HK810 A1-10 B38 C12 C20 EF31 EO88 F15

### MANUFACTURER'S CROSS REFERENCE

V700-75 is designed to meet or exceed the properties of these popular Viton Compounds:  
V747-75, 19357, V14-75, 9009-75, F13664, 514AD.