



DCC Number: E070245-00-V

Date Prepared: 10/19/2007

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. Note: Ship original traveler with these parts.		
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.

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

Required Y/N	Y/N			

Process Flow:

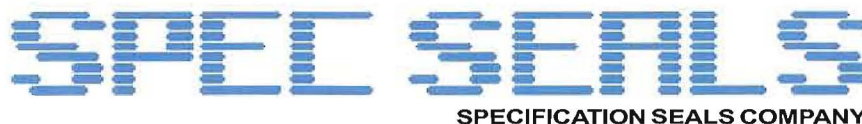
#	Operation	Start Date	Work Area	Instructions	Name/ Initials	Date Comp.
1	Clean		Caltech	Clean and bake per ligo document E960022-B		
2	Vacuum Bake					
3	Control Point			Review/Approve RGA scan		
4	Wrap & Tag vacuum clean parts					
5	Ship and Deliver/File paperwork			Please send to: When cleaned these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

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 BRITTLINESS</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.