

Reasoned Document of Draft Revised Spec. No. MP.0.2600-20 (Rev. – 02) August – 2021 for Soak Back Lube Oil Filter For EMD Locomotives

Para no. of spec.	As per Draft Revised Spec. No. MP.0.2600-20 (Rev. - 02) August - 2021			Comments from Firm and BLW				RDSO's remarks						
				M/s Parker Hannifin Engine Mobile Hydra/USA	M/s Polymer Papers Ltd./Faridabad	M/s Progress Rail Innovations Private Limited/Noida	BLW/BSB							
3.1.5	<table border="1"> <thead> <tr> <th>Properties</th> <th>Test Method</th> <th>Specified Value</th> </tr> </thead> <tbody> <tr> <td>6. Mean pore size</td> <td rowspan="2">As per AAR bubble point test ASTM-F-316/03 (2011)*</td> <td>20 ± 3 micron</td> </tr> <tr> <td>7. Max. pore size</td> <td>80 micron (max.)</td> </tr> </tbody> </table>	Properties	Test Method	Specified Value	6. Mean pore size	As per AAR bubble point test ASTM-F-316/03 (2011)*	20 ± 3 micron	7. Max. pore size	80 micron (max.)	NIL	NIL	NIL	NIL	Revision to remain as it is.
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	*ASTM F-316/03 (2011) OR corresponding Indian standard to be referred.													
4.7	Para No. 4.7 of Leakage testing is deleted.			NIL	NIL	NIL	NIL	Revision to remain as it is.						
4.7	Testing of Rubber components The rubber components shall conform to EMS Grade Duro No. 70 of EMD'S EMS-647 (Annexure I) OR corresponding Indian Standard to be referred. In addition the compression set (%) at 100°C for 24+0/-2 hrs shall be 25% max. Type testing shall be done as per EMS-647 OR corresponding Indian Standard to be referred. Slabs and buttons corresponding to each batch shall be provided. For the purpose of conforming/correlating the composition of the test slab and test button with that of the components, the following tests shall be performed both on test slabs and the components and shall comply with the			NIL	NIL	NIL	NIL	Revision to remain as it is.						

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	Once the type test is done, the source and grade of the sub vendor for rubber components shall be frozen. Any change would require fresh type test.																
5	<p>Type tests for Qualifying New Sources</p> <p>5.1 The following tests shall be performed in the presence of RDSO representative.</p> <p>5.1.1 Testing of filter paper for basis weight, pore size, corrugation depth & other properties (If complete testing facilities are not available, samples would be drawn by RDSO/PU/Inspecting Agency for testing. The grade of paper should be established and frozen.)</p> <p>5.1.2 Static and pressure differential tests and fabrication integrity test of filter element to determine structural integrity.</p> <p>5.1.3 Testing of filter paper using RDSO's test plan no. MP.TP-23 to determine the</p>	NIL	NIL	NIL	NIL	Revision to remain as it is.											

	<p>efficiency characteristics.</p> <p>5.1.4 Test of filter element to establish resistance to water contamination.</p> <p>5.1.5 Type testing of rubber components shall be done as per para 4.7.</p> <p>5.2 Upon satisfactory completion of the tests in items 5.1.1 to 5.1.5, the following field testing is required for qualification and acceptance.</p> <p>5.2.1 Field test on a minimum of three HHP locomotives in heavy duty service for period of six months. The field test is to be arranged and conducted by the base locomotive shed as per format attaced as Annexure - III. The supplier shall be involved in the trial and shall liason with the base shed for timely collection of data, preparation and despatch of reports to RDSO/PU etc.</p> <p>5.2.2 The field test will consist of monitoring filter pressure drop,recording service life and the condition of the filter at the time of removal.</p> <p>5.2.3 At the end of the field test, a report summarizing comparative filter performance, life, and turbocharger related maintenance events shall be submitted by the base shed for review and disposition by RDSO/PU as to acceptability.</p>					
6	<p>Inspection</p> <p>6.1 Filter elements will conform to the approved drawing in so far as physical details are specified as per formats as Annexure - II.</p> <p>6.5 A certificate shall be available from the</p>	NIL	NIL	NIL	NIL	Revision to remain as it is.

	vendor of rubber components regarding the grade of rubber used. Hardness of gaskets would be checked. For orders of more than 1000 nos., complete testing as per para 4.8 shall be done.					
7	<u>Vendor Changes in Approved Status</u> Shall be governed by procedure of Item controlling organization.	NIL	NIL	NIL	NIL	Revision to remain as it is.
8	<u>Preference to Make In India</u> The Government of India policy on 'Make in India' shall apply.	NIL	NIL	NIL	NIL	Revision to remain as it is.