

National Transportation Safety Board

Office of Aviation Safety

Washington, DC 20594



ERA22LA150

SYSTEMS

Group Chair's Factual Report

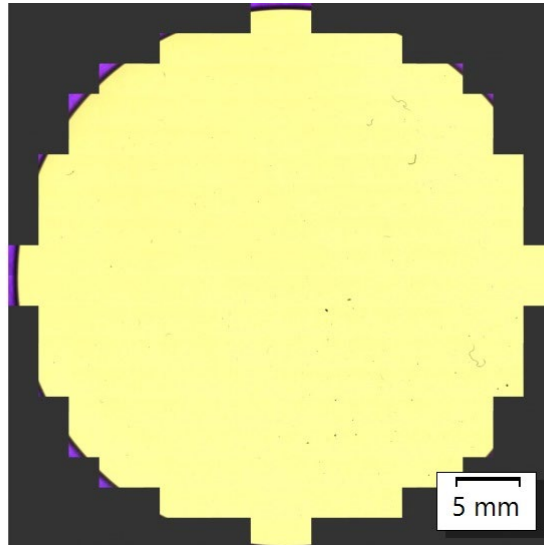
December 04, 2023

Attachment 2 - Patch Test Results from Power Brake & Anti-Skid Valve Return Port
(3 pages)

Sample Information

Sample ID:	005107_1	Work Order #:	
Test Stand #:		Part:	84-023-02
Technician:	NGHIA	Approval:	NOK
Port:	RETURN	Serial Number:	348

Sample Image



Inspection Information

Objective:	5x	Image resolution:	1.25 μ m
Inspection date:	10/19/2022	Last system check:	10/19/2022
Inspected area:	1164.16 mm ²	Flow-through area:	
Preparation Date:	10/18/2022	RMA #:	

Approval

Standard name:	SAE AS4059:2011 -Master Rev 2
Result code:	AS4059 Class 7F
Overall approval:	NOK
Comment:	INVESTIGATION , 84-023-02 , S/N348 , RETURN

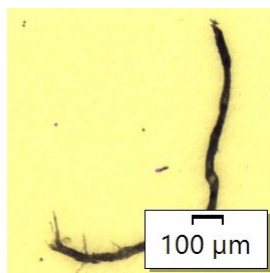
Classification Table (All Particles)

Class	Range [μm]	Absolute Count	Normalized Count [1/100 ml]	Contamination Class	Maximum	Approval (Contamination Class)
B	>=5	2272.00	2272.00	3	5	OK
C	>=15	637.00	637.00	4	5	OK
D	>=25	285.00	285.00	5	5	OK
E	>=50	87.00	87.00	6	5	NOK
F	>=100	29.00	29.00	7	5	NOK

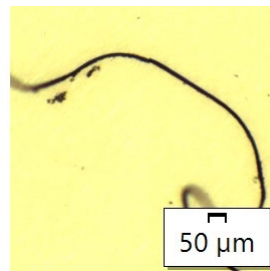
Largest Particle Table (All Particles)

Particle	Feret Max. [μm]	Particle Class	Particle Type	Max. Particle/Fiber Length [μm]
1	920.59	F	Regular Fiber	1411.47
2	773.48	F	Regular Fiber	1162.81
3	713.07	F	Regular Fiber	1156.60
4	674.09	F	Regular Fiber	1022.24
5	640.21	F	Regular Fiber	739.66
6	600.04	F	Regular Fiber	807.79
7	581.47	F	Regular Fiber	747.74
8	514.62	F	Regular Fiber	623.11
9	389.45	F	Regular Fiber	881.81
10	383.44	F	Regular Fiber	415.49

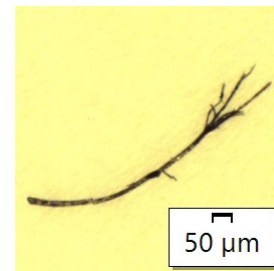
Largest Particle Images (All Particles)



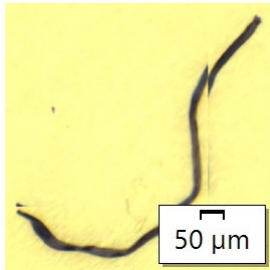
Feret Max.: 920.59 μm
Particle Type: Regular Fiber



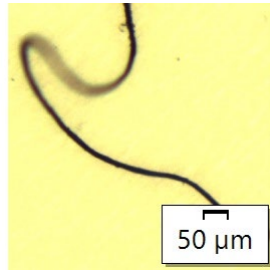
Feret Max.: 773.48 μm
Particle Type: Regular Fiber



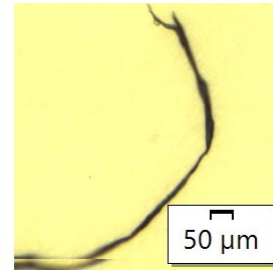
Feret Max.: 713.07 μm
Particle Type: Regular Fiber



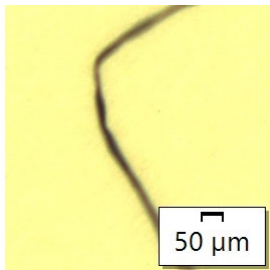
Feret Max.: 674.09 µm
Particle Type: Regular Fiber



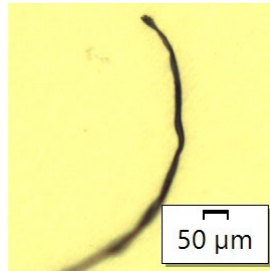
Feret Max.: 640.21 µm
Particle Type: Regular Fiber



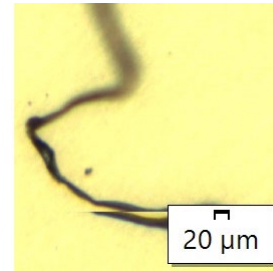
Feret Max.: 600.04 µm
Particle Type: Regular Fiber



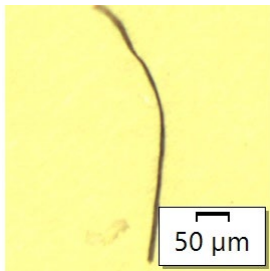
Feret Max.: 581.47 µm
Particle Type: Regular Fiber



Feret Max.: 514.62 µm
Particle Type: Regular Fiber



Feret Max.: 389.45 µm
Particle Type: Regular Fiber



Feret Max.: 383.44 µm
Particle Type: Regular Fiber