

National Transportation Safety Board

Office of Aviation Safety

Washington, DC 20594



ERA22LA150

SYSTEMS

Group Chair's Factual Report

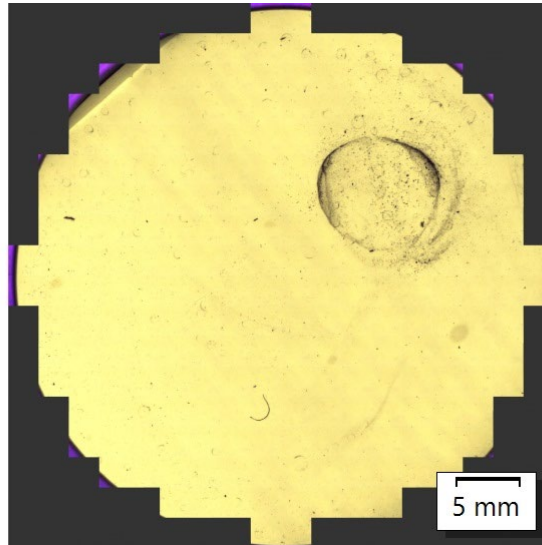
December 04, 2023

Attachment 6 - Patch Test Results from Power Brake & Anti-Skid Valve Right Brake Port
(3 pages)

Sample Information

Sample ID:	005108_1	Work Order #:	
Test Stand #:		Part:	84-023-02
Technician:	NGHIA	Approval:	NOK
Port:	BRAKE RIGHT	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 10F
Overall approval:	NOK
Comment:	INVESTIGATION , 84-023-02 , S/N348 , BR

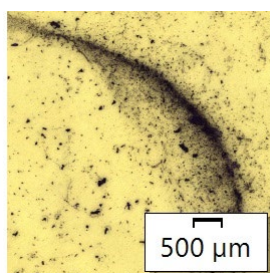
Classification Table (All Particles)

Class	Range [μm]	Absolute Count	Normalized Count [1/100 ml]	Contamination Class	Maximum	Approval (Contamination Class)
B	>=5	52192.00	52192.00	8	5	NOK
C	>=15	13745.00	13745.00	8	5	NOK
D	>=25	5565.00	5565.00	10	5	NOK
E	>=50	1379.00	1379.00	10	5	NOK
F	>=100	248.00	248.00	10	5	NOK

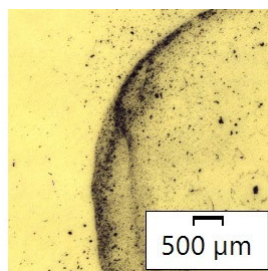
Largest Particle Table (All Particles)

Particle	Feret Max. [μm]	Particle Class	Particle Type	Max. Particle/Fiber Length [μm]
1	5699.99	F	Regular Particle	5699.99
2	4442.54	F	Regular Particle	4442.54
3	2120.89	F	Regular Fiber	3667.14
4	876.11	F	Regular Particle	876.11
5	677.54	F	Regular Fiber	2622.79
6	547.25	F	Regular Fiber	1837.65
7	514.65	F	Regular Particle	514.65
8	467.66	F	Regular Fiber	908.17
9	452.44	F	Regular Particle	452.44
10	434.79	F	Regular Fiber	2895.52

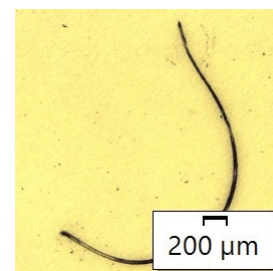
Largest Particle Images (All Particles)



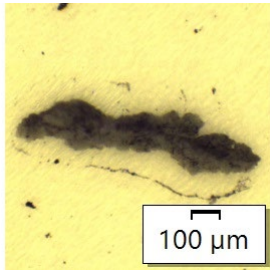
Feret Max.: 5699.99 μm
Particle Type: Regular Particle



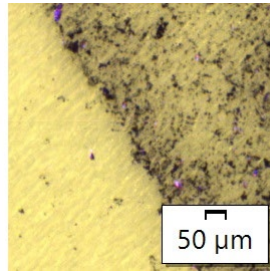
Feret Max.: 4442.54 μm
Particle Type: Regular Particle



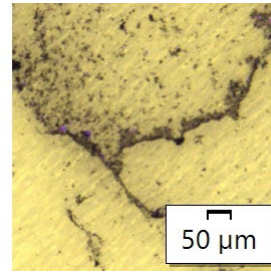
Feret Max.: 2120.89 μm
Particle Type: Regular Fiber



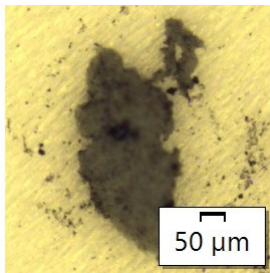
Feret Max.: 876.11 μm
Particle Type: Regular Particle



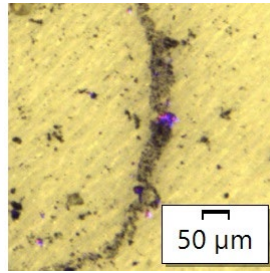
Feret Max.: 677.54 μm
Particle Type: Regular Fiber



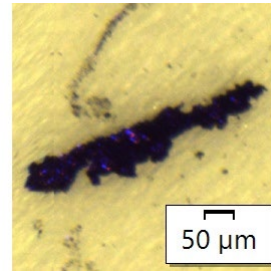
Feret Max.: 547.25 μm
Particle Type: Regular Fiber



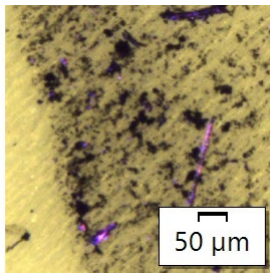
Feret Max.: 514.65 μm
Particle Type: Regular Particle



Feret Max.: 467.66 μm
Particle Type: Regular Fiber



Feret Max.: 452.44 μm
Particle Type: Regular Particle



Feret Max.: 434.79 μm
Particle Type: Regular Fiber