

National Transportation Safety Board

Office of Aviation Safety

Washington, DC 20594



ERA22LA150

SYSTEMS

Group Chair's Factual Report

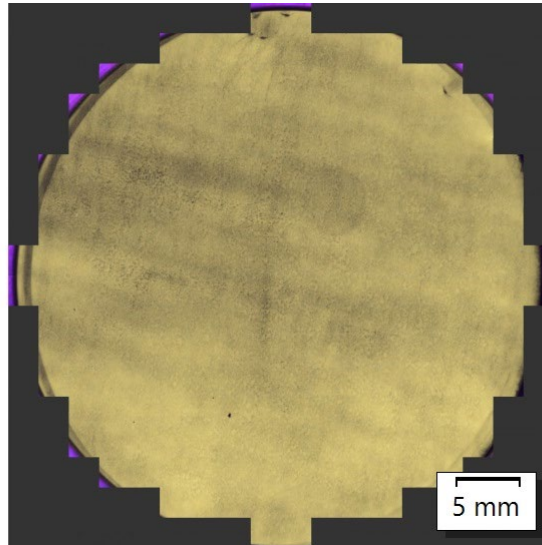
December 04, 2023

Attachment 5 - Patch Test Results from Power Brake & Anti-Skid Valve Left Brake Port
(3 pages)

Sample Information

Sample ID:	005113_1	Work Order #:	
Test Stand #:		Part:	84-023-02
Technician:	NGHIA	Approval:	NOK
Port:	BRAKE LEFT	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 >12F
Overall approval:	NOK
Comment:	84-023-02 , S/N348 , PORT BL

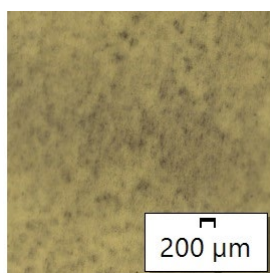
Classification Table (All Particles)

Class	Range [μm]	Absolute Count	Normalized Count [1/100 ml]	Contamination Class	Maximum	Approval (Contamination Class)
B	>=5	115440.00	115440.00	9	5	NOK
C	>=15	25678.00	25678.00	9	5	NOK
D	>=25	13628.00	13628.00	11	5	NOK
E	>=50	5261.00	5261.00	12	5	NOK
F	>=100	1888.00	1888.00	>12	5	NOK

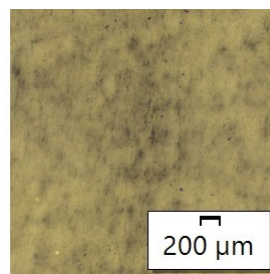
Largest Particle Table (All Particles)

Particle	Feret Max. [μm]	Particle Class	Particle Type	Max. Particle/Fiber Length [μm]
1	3838.38	F	Regular Particle	3838.38
2	2593.15	F	Regular Particle	2593.15
3	1840.37	F	Regular Particle	1840.37
4	1777.15	F	Regular Particle	1777.15
5	1694.46	F	Regular Particle	1694.46
6	1439.23	F	Regular Particle	1439.23
7	1430.47	F	Regular Particle	1430.47
8	1316.72	F	Regular Particle	1316.72
9	1283.70	F	Regular Particle	1283.70
10	1176.86	F	Regular Particle	1176.86

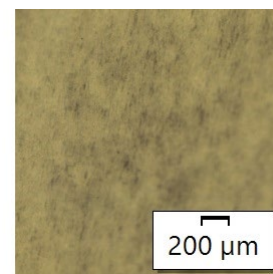
Largest Particle Images (All Particles)



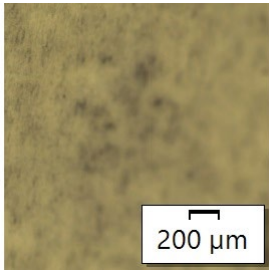
Feret Max.: 3838.38 μm
Particle Type: Regular Particle



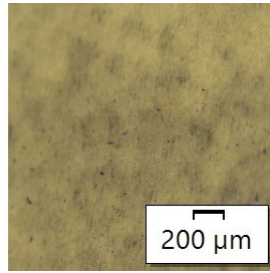
Feret Max.: 2593.15 μm
Particle Type: Regular Particle



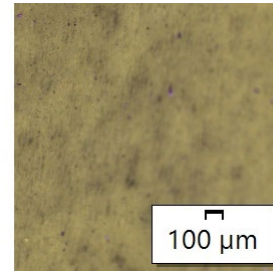
Feret Max.: 1840.37 μm
Particle Type: Regular Particle



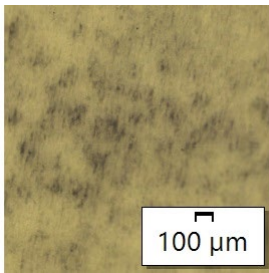
Feret Max.: 1777.15 µm
Particle Type: Regular Particle



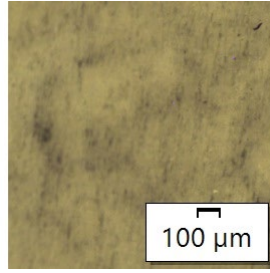
Feret Max.: 1694.46 µm
Particle Type: Regular Particle



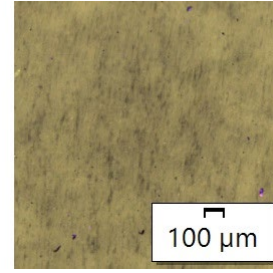
Feret Max.: 1439.23 µm
Particle Type: Regular Particle



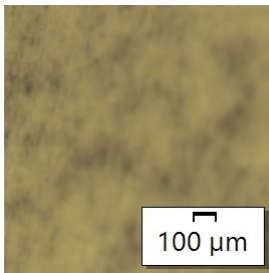
Feret Max.: 1430.47 µm
Particle Type: Regular Particle



Feret Max.: 1316.72 µm
Particle Type: Regular Particle



Feret Max.: 1283.70 µm
Particle Type: Regular Particle



Feret Max.: 1176.86 µm
Particle Type: Regular Particle