

National Transportation Safety Board

Office of Aviation Safety

Washington, DC 20594



ERA22LA150

SYSTEMS

Group Chair's Factual Report

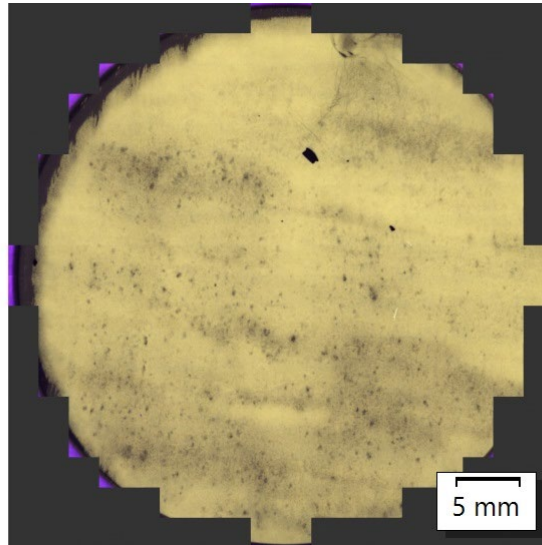
December 04, 2023

Attachment 1 - Patch Test Results from Power Brake & Anti-Skid Valve Pressure Port
(3 pages)

Sample Information

Sample ID:	005110_1	Work Order #:	
Test Stand #:		Part:	84-023-02
Technician:	NGHIA	Approval:	NOK
Port:	P	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 P

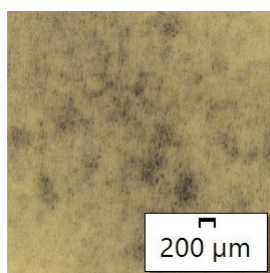
Classification Table (All Particles)

Class	Range [μm]	Absolute Count	Normalized Count [1/100 ml]	Contamination Class	Maximum	Approval (Contamination Class)
B	>=5	78059.00	78059.00	9	5	NOK
C	>=15	27460.00	27460.00	9	5	NOK
D	>=25	14440.00	14440.00	11	5	NOK
E	>=50	4549.00	4549.00	12	5	NOK
F	>=100	1248.00	1248.00	>12	5	NOK

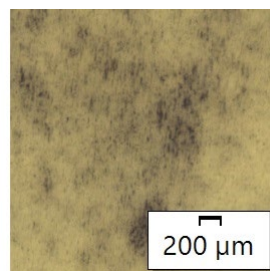
Largest Particle Table (All Particles)

Particle	Feret Max. [μm]	Particle Class	Particle Type	Max. Particle/Fiber Length [μm]
1	3241.46	F	Regular Particle	3241.46
2	2376.65	F	Regular Particle	2376.65
3	1516.50	F	Regular Particle	1516.50
4	1434.74	F	Regular Particle	1434.74
5	1229.60	F	Regular Particle	1229.60
6	1168.49	F	Regular Particle	1168.49
7	1084.68	F	Regular Particle	1084.68
8	1033.03	F	Regular Particle	1033.03
9	1009.74	F	Regular Particle	1009.74
10	929.32	F	Regular Particle	929.32

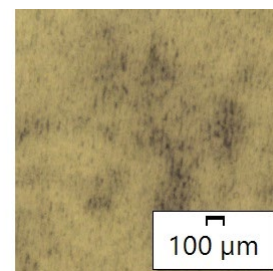
Largest Particle Images (All Particles)



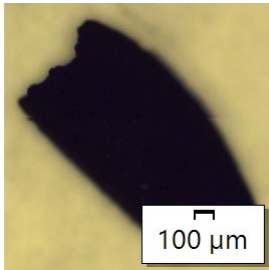
Feret Max.: 3241.46 μm
Particle Type: Regular Particle



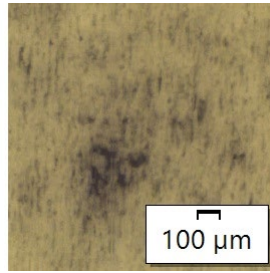
Feret Max.: 2376.65 μm
Particle Type: Regular Particle



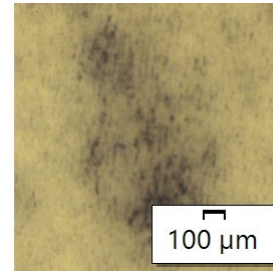
Feret Max.: 1516.50 μm
Particle Type: Regular Particle



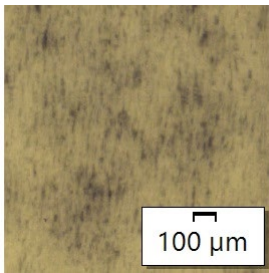
Feret Max.: 1434.74 µm
Particle Type: Regular Particle



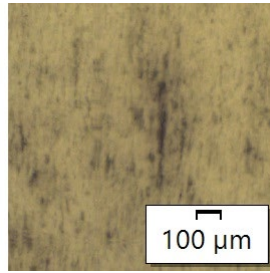
Feret Max.: 1229.60 µm
Particle Type: Regular Particle



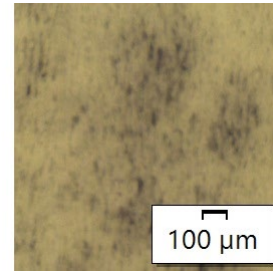
Feret Max.: 1168.49 µm
Particle Type: Regular Particle



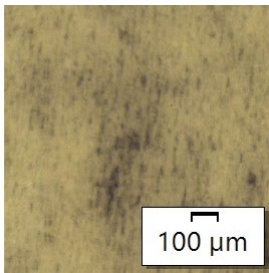
Feret Max.: 1084.68 µm
Particle Type: Regular Particle



Feret Max.: 1033.03 µm
Particle Type: Regular Particle



Feret Max.: 1009.74 µm
Particle Type: Regular Particle



Feret Max.: 929.32 µm
Particle Type: Regular Particle