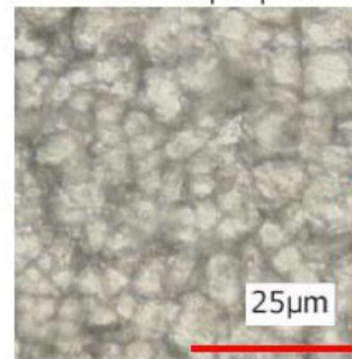


FRACAS 14036 – WHEEL SEALS

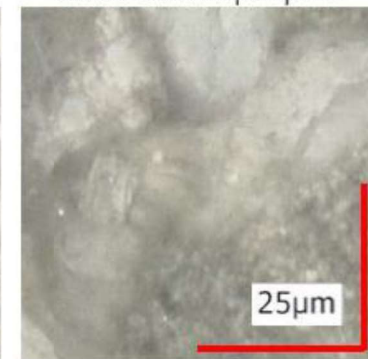
Background & Root Cause

- DTNA & ConMet recently identified a wheel seal manufacturing defect which has caused an increase in seal failures due to oil leakage
 - **Affected hub build date range is May 2023-July 2024**
 - FF & R premium wheel seals only
 - Peak failure rate is <0.9% in the first year of service
- Root cause determined: excessively large phosphate crystals on seal sleeve
- The defect affects the seal's internal running surface and reduces the ability of the seal main lip to contain the hub oil
 - Majority of these failures occurring within the first months of service

2022 unused seal
correct micro-phosphate



2024 failed seal
unwanted macro-phosphate



Containment & Corrective Actions

- Inspected seals on-hand at supplier and CMI plants
 - **Clean date for new DTNA truck builds: 1/1/25**
- Provided SID's for inspected shipment clean dates for each DTNA plant
- Seal supplier has instituted additional process controls
 - Magnified visual inspection of 3 samples per phosphate rack
 - Tightened control limits for phosphate bath

Next Steps

- **No proactive field actions are recommended**
- ConMet recommends regular hub/seal monitoring as standard (pre-trip, etc)
- Continue to file warranty through standard channels
 - Affected vehicle VIN's are flagged

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