Sequence X ASTM D8729

Ford Chain Wear Test Surveillance Panel Meeting Minutes

June 20, 2023

Prepared By: Alfonso Lopez, S.P. Chairman

Sequence X Surveillance Panel Meeting Agenda 06/20/23

- Roll call
- Action Items
- Report to Sub B in Denver (June 27th)
- Next Meeting

Motion/ Action List

- Approval of the meeting minutes from 05/02/23
 - Motion Michael Deegan
 - Second Richard Grundza
 - Passed unanimous
- Action List
 - Update Fig A.9.10, add spec to hose from PCV.
 - Poll labs on BB stack configuration what are they using.
 - Clarify wording for timing of ramp and window for taking blowby.
 - All Complete Information Letter 23-2
 - Schedule a build workshop.
 - Complete August 15th at Lubrizol

Sequence X ASTM D8729

Ford Chain Wear Test Presentation to Subcommittee D02.B

June 2023

Prepared By: Alfonso Lopez, S.P. Chairman

Sequence X SP Report

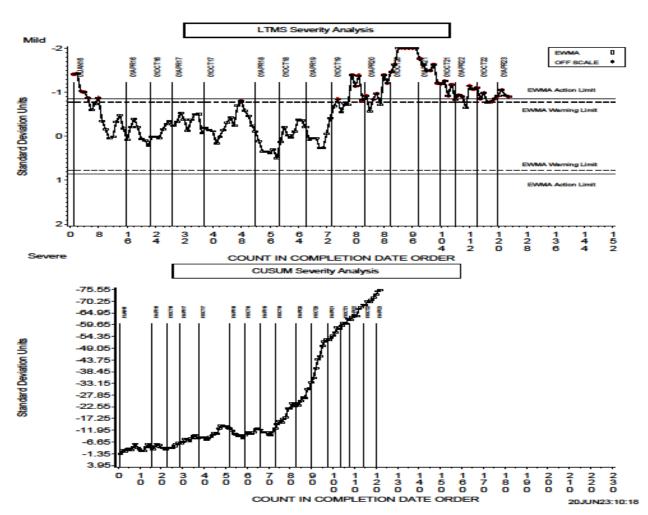
Test Status

- Information Letter 23-1 (New stand calibration criteria effective February 28, 2023)
 - Run oil 270 within Ei bands
 - Run oil 271 as a discrimination oil prove discrimination per 23-1 statistical limits
 - Reference periods extended to 365 days (15 tests)
- 3 labs, 4 tests stands are calibrated per new criteria

LTMSLAB	LTMSAPP	VAL	LTMSDATE	Oil	CHST	CHSTyi
Α	1	AC	20230505	270	0.1076	-0.4149
Α	1	AS	20230519	271	0.0292	-5.2672
D	1	AC	20230429	270	0.0876	-1.5944
D	1	AS	20230517	271	0.0332	-4.5352
G	3B	AC	20230421	270	0.0932	-1.239
G	3B	AS	20230507	271	0.0366	-3.9792
G	5	AC	20230605	270	0.1006	-0.8008
G	5	AS	20230618	271	0.0339	-4.4162

SEQUENCE X INDUSTRY OPERATIONALLY VALID DATA END OF TEST CHAIN WEAR FINAL RESULT





Task Force Action

- Lab visits in San Antonio
 - Test stand inspections
 - Information Letter 23-2
 - Standardize stand Blowby Stack configuration
 - Clarify wording on engine ramps and taking Blowby window
- Planned build workshop
 - August 15th
 - Lubrizol to host
- Operations and Hardware Chair Appointed (Jason Soto)

Reference Oil Update

- Oil 271
 - Oil to be used as a discrimination oil only per Info. Letter 23-1
 - No inventory problems
- Oil 1011 Depleted
 - 1011-1 Assignment on hold
- Oil 270 Primary reference oil
 - No inventory problems

Fuel / Hardware Update

Fuel

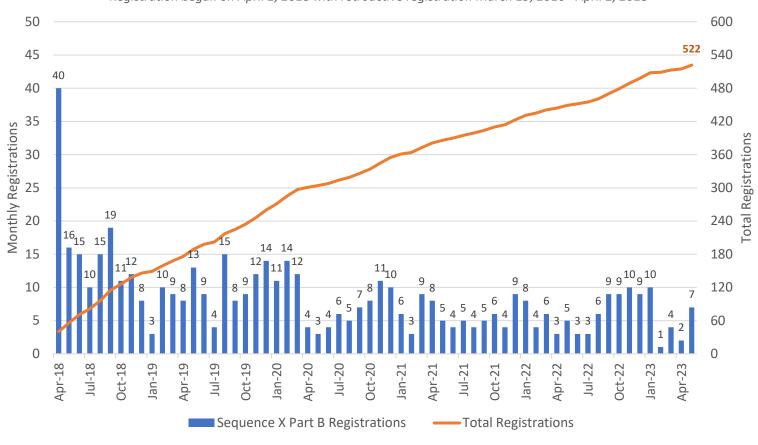
- No fuel supply issue
- Alternative fuel supplier testing matrix design presented to panel
 - Alternative Fuel
 - Oil 270 and 271
 - 2-3 Labs
 - Fuel task force led by Jason Soto to meet in July matrix review

Hardware

- Critical component purchase complete
 - Only the independent labs purchased hardware
- Hardware inventory forecast good for 5 years plus
 - Lab Survey performed (Independent Labs responded)
- GF7 and GF8 AOAP timelines are being established
- Seq X needs to be available through 2027 minimum (GF7)
- New engine platform for GF8

Sequence X Part B Registrations through 20230531

Registration began on April 2, 2018 with retroactive registration March 19, 2016 - April 2, 2018



Sequence X History

	Sequence X Milestones				
1/1/2012	Start of Chain Wear Test Development				
12/7/2017	AOAP Approval for GF6				
4/2/2018	Live Registration (03/19/16 Retro - Registration)				
2/20/2019	Surveillance Panel Procedure Acceptance Vote				
4/4/2019	Subcommittee B Ballot				
6/16/2019	Main Committee D02 Ballot - ASTM Procedure D8279				
11/7/2019	Memorandum 19-043 Use of Calibrated Sequence X Stands to Generate Used Oil Samples for Seq IX (LSPI)				
11/20/2020	Information Letter 20-1 Procedure Edits / Drive Shaft Spec				
1/27/2020	Information Letter 20-2 Criteria for Multiple Test Type Calibration				
6/1/2020	Mild Severity Shift Task Force Formed				
9/11/2020	Information Letter 20-3 Correction to Table 12				
10/14/2020	Information Letter 20-4 (1) Correcting PCV Flow Meters (2) Correction to Section 12.1.1				
4/8/2021	Oil 271 Suspended from use due to mild results				
2 (27 (22 2	Information Letter 22-1 Engine run limits, honing procedure, connecting rod orientation, blowby gas				
9/17/2021	thermocouple orientation				
5/3/2023	Information letter 23-1. Use oil 271 as a discrimination oil				
6/9/2023	Information letter 23-2. Procedure revision Fig 2				