



BUREAU OF INDIAN STANDARDS

RESOLUTIONS

16th Meeting of

Lubricants and their Related Products Sectional Committee, PCD 25

Date/day : 30-04-2024/Tuesday
Time : 1100 - 1600 hrs
Chairman : Dr. Y P Rao, In Personal Capacity
Member Secretary : Ms. Kreeti Das, Sc.C, PCD, BIS

Resolution PCD 25/2024/R-1.1

The Committee decided that the panel for review of composition of PCD 25 and its SCs should meet on 9 May 2024.

Resolution PCD 25/2024/R-1.2

For PCD 25:1/P3, the Committee endorsed the recommendation of PCD 25:1 to request Dr. Pankaj Bhatnagar to continue as Convenor (in personal capacity) of the panel till IS 13656 and IS 1118 are revised. If Dr. Bhatnagar does not consent to continue as Convenor in personal capacity, BIS may seek nomination of suitable Convenor from IOCL R&D.

Resolution PCD 25/2024/R-1.3

For PCD 25:1/P4, the Committee directed BIS to call a joint meeting of PCD 25 and PCD 25:1/P4 at the earliest to discuss comments received for development of standard for naphthenic base oil. The Committee directed BIS to invite the commenting organizations, representatives from Customs department, and Dr. Deepti Kapil (CPCB) in the meeting.

Resolution PCD 25/2024/R-1.4

For PCD 25:1/P1, the Committee requested Convenor, Shri Harsh Vardhan Jain, to provide the revised draft of IS 5759 prepared by the panel by mid-May 2024 and directed BIS to issue the document into WC for a period of 60 days. The Committee also directed BIS to seek comments from CSIR-IIP regarding availability/setting up of test facility for coolants as prescribed in the WC document.

Resolution PCD 25/2024/R-1.5

For PCD 25:1/P3, the Committee endorsed the recommendation of Subcommittee that the panel to provide the revised draft of IS 13656 by mid-May 2024 and directed BIS to issue the document into WC for 60 days.

Resolution PCD 25/2024/R-1.6

For PCD 25:1/P3, the Committee endorsed the recommendation of Subcommittee that the panel to provide the revised draft of IS 1118 by mid-May 2024 and directed BIS to issue the document into WC for 60 days.

Resolution PCD 25/2024/R-1.7

For PCD 25:1/P2 “Transmission and e-axle fluids for electric vehicles”, the Committee endorsed the recommendation of Subcommittee to co-opt transmission manufacturers recommended by Shri Ramaprabhu, Shri Dhanesh Rathod from Western India Genuine Ghee Company Pvt Ltd., and representative from Tata Motors in the panel. The Committee directed BIS to circulate SAE J3200 to PCD 25 and PCD 25:1 members for review and recommended the panel to co-opt representative from the ZF Company.

Resolution PCD 25/2024/R-1.8

For PCD 25:2, the Committee endorsed the recommendation of Subcommittee to drop ARAI from PCD 25:2 and co-opt them in PCD 25:1 instead. The Committee also endorsed the recommendation of the Subcommittee to drop NTH Kolkata (due to non-participation in PCD 25:2 meetings) and MoPNG (due to decline of interest in participation).

Resolution PCD 25/2024/R-1.9

For PCD 25:2/P1 “Formulation of Standards on Aviation Grade Hydraulic Fluids”, the Committee endorsed the recommendation of Subcommittee to conduct a meeting in May 2024 and strongly recommended the panel to develop working draft considering urgency of Indian defence.

Resolution PCD 25/2024/R-1.10

For PCD 25:2, the Committee recommended the panel for drafting of terms of reference (ToR) of R&D project for revision of temporary corrosion preventives to meet and finalize the questionnaires for the ToR at the earliest and submit the ToR for approval of Chairperson PCD 25.

Resolution PCD 25/2024/R-1.11

For PCD 25:2, the Committee recommended that, hydraulic fluids being a very important technical product being widely used in industry, the consolidation of IS 3098, IS 10522, IS 11656, PCD 25(14904) and preparation of merged draft should be carried out by subject matter experts. Hence, the Committee requested Shri Abhijit Sarkar (HPCL), Shri Nitin Chaudhari and Shri Sandeep Sarode (Lubrizol), Shri Umesh Dwivedi (Gulf Oil), and Shri C S Balamurugan (Tide Water) to consolidate and prepare the merged draft and directed BIS to provide them with the relevant documents and editable files. The

Committee requested the group to provide the merged document by 1st week of June 2024.

Resolution PCD 25/2024/R-1.12

For PCD 25:2, the Committee endorsed the recommendation of Subcommittee and directed BIS to issue the latest ISO 7745 : 2024 into WC for 60 days to replace IS 10531 : 1983.

Resolution PCD 25/2024/R-1.13

For PCD 25:2, revision of IS 10532 (Parts 1-5), the Committee decided that the revision of these standards have been delayed for some time and the latest standard needs to be in place for consumer industries like mining and steel. In view of lack of comments on WC document and letters sent by BIS to relevant stakeholders, the Committee decided to finalize PCD 25(23946) for identical adoption of ISO 12922 : 2020, which will replace IS 10532 (Parts 1 – 5).

Resolution PCD 25/2024/R-1.14

For PCD 25:2, revision of IS 1115 : 1986, the Committee endorsed the recommendation of Subcommittee and requested Shri Mukul Maheshwari, IOCL R&D, to nominate a suitable expert to prepare the revised draft, as agreed in last meeting

Resolution PCD 25/2024/R-1.15

For PCD 25:2, revision of IS 14385 : 1996, the Committee endorsed the recommendation of Subcommittee to co-opt NALCO, BALCO, and HINDALCO and request them for comments on the standard. The Committee also decided that if no comments are received by next meeting, the standard may be archived.

Resolution PCD 25/2024/R-1.16

For PCD 25:2, revision of IS 1589 : 1994, the Committee endorsed the recommendation of Subcommittee and requested RDSO to provide comments on the standard within 1 month (end of May 2024). If no comments are received, the Committee decided to archive the standard.

Resolution PCD 25/2024/R-1.17

For PCD 25:2, revision of IS 4543 : 1977, the Committee stated that revision of this standard has been pending since long and hence decided that the revised draft provided by Shri Sanjay Kumar (Gulf Oil) to be issued into WC for 60 days. The Committee requested Shri Abhijit Sarkar (HPCL) and Shri Umesh Dwivedi (Gulf Oil) to review the WC document and provide comments.

Resolution PCD 25/2024/R-1.18

For PCD 25:2, revision of IS 9182 (Parts 1 - 3), the Committee endorsed the recommendation of Subcommittee and requested Shri Umesh Dwivedi (Gulf Oil) to provide the revised drafts by 1st week of June 2024.

Resolution PCD 25/2024/R-1.19

For PCD 25:2, revision of IS 9554, the Committee requested Dr. T Singh to examine if ISO 12925-2 can replace IS 9554 and IS 16909 and inform BIS in 2 weeks' time. If yes, the Committee directed BIS to issue ISO 12925-2 into WC for 60 days to replace IS 9554 and IS 16909.

Resolution PCD 25/2024/R-1.20

For PCD 25:3, the Committee endorsed the recommendation of the Subcommittee to co-opt Siddharth Greases, DGQA, and Tata Motors in the Subcommittee and to seek updated nominations from HPCL.

Resolution PCD 25/2024/R-1.21

For PCD 25:3, first revision of IS 10647, the Committee endorsed the recommendation of Subcommittee to finalize PCD 25 (14360)WC 2 for printing with change in maximum copper strip corrosion requirement to 1b.

Resolution PCD 25/2024/R-1.22

For PCD 25:3, second revision of IS 12203, the Committee endorsed the recommendation of Subcommittee to finalize PCD 25 (14340)WC 2 for printing with change in minimum VI of mineral oil requirement to 80 and change in maximum copper strip corrosion requirement to 1b.

Resolution PCD 25/2024/R-1.23

For PCD 25:3/P1, greases for electric vehicles, the Committee stated that Lubrizol had conducted a webinar on greases for EVs and requested Lubrizol to share the presentation of the webinar with PCD 25, PCD 25:3, and the panel through BIS. The Committee recommended to the panel that the specification (conductivity) of grease may vary as depending on point of application. Hence, more than one grade of grease may be required to meet the requirements of different greasing points in the EV and same needs to be covered in the working document.

The Committee recommended the panel to co-opt Tata Motors, Bajaj Auto, Ashok Leyland, and Mahindra & Mahindra and noted that the panel plans to meet by mid-June 2024 and a working draft can be provided to BIS by end of June for circulation as P-draft.

Resolution PCD 25/2024/R-1.24

For biodegradable lubricants, the Committee directed BIS to procure EN 16575, CEN/TR 16227, and EN 16807 and circulate to PCD 25 and its SCs for study and inputs for adoption. Based on inputs of Committee, these standards may be proposed for adoption as ISO standard during ISO/TC 28 meetings in India in September 2024.

Resolution PCD 25/2024/R-1.25

For biodegradable greases, the Committee endorsed the recommendations of PCD 25/P5 on comments received on PCD 25 (23378)P and to issue the modified draft into WC for a period of 60 days. The Committee also endorsed the recommendation of panel to seek data from grease manufacturers for availability of test specimen for elastomer test and also requested OEMs to provide data on what test specimen are being used by them for elastomer test.

The Committee also directed BIS to procure SS 155470 and recommended the panel to review the Swedish standard to check if any technical upgradation can be made to the indigenous document PCD 25 (23378).

Resolution PCD 25/2024/R-1.26

For greases for solar panels/dielectric grease, the Committee requested Dr. T Singh to contact NLGI, ELGI, and CLGI and seek information for preparation of a white paper.

Resolution PCD 25/2024/R-1.27

For review and re-affirmation of Indian Standards, the Committee decided to archive the following standards:

- IS 14384 : 1996 Colloidal graphite dispersion in oil – Specification
- IS 506 : 2019 Automotive and other general purpose grease – specification
- IS 493 (Part 1) : 2019 Specification for general purpose machinery and spindle oils: Part 1 machinery oils
- IS 493 (Part 2) : 2019 Specification for general purpose machinery and spindle oils: Part 2 spindle oils
- IS 11159 (Part 5) : 2019 / ISO 6743-4 : 2015 Lubricants, industrial oils and related products (Class L) - Classification: Part 5 family H (Hydraulic Systems)
- IS 11159 (Part 7) : 2019 / ISO 6743-6 : 2018 Lubricants, industrial oils and related products (Class L) - Classification: Part 7 family C (Gear Systems)
- IS 11159 (Part 13) : 2019 / ISO 6743-12 Lubricants, industrial oils and related products (Class L) - Classification: Part 13 family Q (Heat Transfer Fluids)

Resolution PCD 25/2024/R-1.28

For review and re-affirmation of Indian Standards, the Committee decided to reaffirm the following standards with revision:

- IS 16775 : 2018 / ISO / TS 11365:2011 Petroleum and related products - Guidance for the maintenance and use of triaryl phosphate ester turbine control fluids
- IS 10532 (Part 4) : 2019 Fire resistant hydraulic fluids - Specification: Part 4 phosphate esters type
- IS 1118 : 2019 Gear lubricants, multipurpose (Extreme Pressure Gear Oil) – specification
- IS 13656 : 2019 Internal combustion engine crankcase oils for automotive application (Diesel And Gasoline) – Specification
- IS 8654 : 2019 Automotive hydraulic brake fluid, heavy duty - Specification

Resolution PCD 25/2024/R-1.29

For review and re-affirmation of IS 7623 : 2019, the Committee requested Dr. T Singh to review the standard and prepare revised draft.

Resolution PCD 25/2024/R-1.30

For pre-2000 standards, revision of IS 4578 : 1997, the Committee directed BIS to issue the revised draft (incorporating amendments) into WC for a period of 60 days.

Resolution PCD 25/2024/R-1.31

For pre-2000 standards, revision of IS 14745 : 1999, the Committee requested HPCL to provide the revised draft within 1 week and directed BIS to issue the document into WC for 60 days. The Committee also directed BIS to seek comments from Thermax on the WC draft.

Resolution PCD 25/2024/R-1.32

For participation in ISO/TC 28, the Committee directed BIS to launch a call of interest among members of PCD 25 and its SCs for participation in ISO/TC 28, ISO/TC 28/SC 4, ISO/TC 28/SC 4/WG 3, and ISO/TC 28/SC 4/WG 16 in preparation to the upcoming meeting in September 2024 in India.

Additionally, the Committee recommended to register the following experts:

ISO/TC 28/SC 4 “Classification and Specification”	Dr. Kavita Rai, IOCL R&D Shri Mukul Maheshwari, IOCL R&D Dr. T Singh, BPCL Abhijeet Sarkar, HPCL
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	Dr. G D Thakre/Dr. Devendra Singh, CSIR-IIP Head, PC Head, PCD Ms. Kreeti Das, Member Secretary
ISO/TC 28/SC 4/WG 3 Classification and specifications of hydraulic fluids	Dr. Kavita Rai, IOCL R&D Abhijeet Sarkar, HPCL Shri M Rajendran, BPCL Tapas Chakraborti, Gulf Oil
ISO/TC 28/SC 4/WG 16 Classifications and specifications of industrial gear oils, turbine oils, compressor oils and lubricating greases	Abhijeet Sarkar, HPCL Shri M Rajendran, BPCL Tapas Chakraborti, Gulf Oil

Resolution PCD 25/2024/R-1.33

The Committee agreed with the tentative meeting calendar for PCD 25 and its SCs.