



	भारतीय मानक ब्यूरो BUREAU OF INDIAN STANDARDS
	(PETROLEUM, COAL & RELATED PRODUCTS DEPARTMENT)
MINUTES	
1 April 2024, Monday, 1030 - 1130 h	
Automotive and Industrial Greases Subcommittee	9th Meeting
Convenor: Dr. Tarunender Singh, BPCL, Mumbai	Member Secretary: Ms. Kreeti Das

ITEM 0 WELCOME AND INTRODUCTORY REMARKS

0.1 Welcome by BIS

On behalf of BIS, Ms. Kreeti Das, Sc. C, welcomed all members to the 9th meeting of PCD 25:SC 3 Automotive and Industrial Greases

0.2 Opening Remarks by the Chairperson

Convenor, Dr. T Singh, welcomed all members to the 9th meeting of PCD 25:SC 3 and requested members to give their valuable inputs on the agenda items for discussion, i.e., comments on IS 12203 and IS 10647.

0.3 The attendance of the meeting is given in **Annex I**.

ITEM 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

The Subcommittee **CONFIRMED** the minutes of the last meeting, as circulated.

ITEM 2 TITLE, SCOPE AND COMPOSITION OF PCD 25:3

2.1 The Subcommittee **NOTED** the title and the scope of the PCD 25: SC 3 as well as the list of standards covered under PCD 25:3.

2.2 The Subcommittee **REVIEWED** the composition of PCD 25:3 as given in Annex II of agenda and **RECOMMENDED** the following:

- a) Co-opt DGQA and Siddharth Greases in the Subcommittee.

2.3 The Subcommittee **REVIEWED** the composition of **PCD 25:3/P1** and **DECIDED** the following:

- a) Shri A K Jain, HPCL, has superannuated; BIS to seek updated nomination from HPCL
- b) Dr. E Sayanna no longer associated with Siddharth Greases; Shri Rohit Kumar Agarwal to be nominated from Siddharth Greases.
- c) Shri P Ramesh to be co-opted from Ashok Leyland.



ITEM 3 R&D PROJECTS TO SUPPORT STANDARDIZATION

The Subcommittee **NOTED** item 3 of the agenda regarding R&D project provision introduced by BIS.



ITEM 4 ACTIVITIES OF AUTOMOTIVE AND INDUSTRIAL GREASES SUBCOMMITTEE

4.1 Draft Standards/Amendments for Finalization

Sl. No.	Indian Standard/Document No.	Subcommittee Recommendation
i.	<p>PCD 25 (14360)WC 2</p> <p>First Revision of IS 10647 : 1983 Specification for wheel bearing grease</p>	<ul style="list-style-type: none"> The Subcommittee REVIEWED the comment received on PCD 25 (14360)WC 2 and RECOMMENDED as follows: <div style="text-align: center;">  <p>Collated%20Comments_PCD%2025(1436</p> </div> As there was only one comment on the document regarding copper corrosion which was resolved with consensus and there were no major changes made to the WC document, the Subcommittee RECOMMENDED to finalize the document for printing.
ii.	<p>PCD 25 (14340)WC 2</p> <p>Second Revision of IS 12203: 1999 Lithium Base Grease for Automotive Purposes</p>	<ul style="list-style-type: none"> Convenor PCD 25:3 had sought inputs from greases manufacturers regarding prescribed value of VI for mineral oil and prescribed value for copper corrosion for grease in the WC document. Inputs were received from Gulf Oil, Balmer Lawrie, Siddharth Grease and Lubes, Standard Greases, Turbhe Chemicals, Tide Water, HPCL, and Waxpol. Collated inputs are given in attached file: <div style="text-align: center;">  <p>Inputs%20on%20VI%20and%20corrosio</p> </div> The matter was deliberated in detail and all grease manufacturers were agreeable on the value of 1b for copper corrosion as 1a and 1b do not have significant impact on performance of grease. Convenor also agreed to change the prescribed value of copper corrosion to 1b. With respect to VI of mineral oil, Gulf Oil, Balmer Lawrie, Turbhe Chemicals, Tide Water, HPCL, Waxpol agreed for a VI of 90. However, Standard Greases and Siddharth Petro did not agree. Standard greases recommended that VI is not required to be incorporated if viscosity at both 40 °C and 100 °C are determined. If included, the value shall be 70 to allow use of naphthenics. Convenor countered that the document has prescribed kinematic viscosity at 100 °C only and thus VI value is required. Turbhe Chemicals and Siddharth Petro recommended VI value of 80 to allow use of naphthenics. Convenor also agreed that keeping VI value of 80 will satisfy the concern raised by PCD 25 in last meeting by allowing use of naphthenics in grease formulation. Shri P Ramesh from Ashok Leyland however objected stating that from OEM point of view, keeping VI of 80 would be diluting the specification and the value should be retained at 90 to ensure optimum performance. Convenor explained that the VI value of mineral oil is being changed to allow use of naphthenic, however, no change is being made to Table 1 of the document, which prescribes the characteristics for final product – grease. Hence, performance of final product is not affected. Based on above discussions, the Subcommittee RECOMMENDED to keep VI of mineral oil as 80 and copper corrosion requirement as



		<p>1b and send the document to PCD 25 Chair for approval for finalization.</p> <ul style="list-style-type: none"> • Shri Vijay Deshmukh, Standard Greases, brought the attention of Subcommittee to the requirement of Molybdenum disulphide and stated that price of molybdenum disulphide has increased manifolds and it may not be feasible to ensure minimum 3 percent by mass for Grade 3. Hence, provision should be given to combine molybdenum disulphide with graphite. • Convenor informed that though this is a relevant point, the document is at 2nd WC stage and should be finalized for printing. The point raised by Standard greases will be discussed further within Subcommittee with supporting data and an amendment may be brought out for any required change.
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4.2 Draft Standards/Amendments for Approval for Wide Circulation

Sl. No.	Indian Standard/Document No.	Subcommittee Recommendation
i.	<p>PCD 25 (25117)WC</p> <p>Fourth Revision of IS 507 : 1993 General purpose grease for defence applications - Specification</p>	<ul style="list-style-type: none"> • The Subcommittee NOTED that the document is under WC, ending on 30 May 2024.

4.3 Drafts under Preparation

Sl. No.	Subject	Subcommittee Recommendation
i.	Greases for Electric Vehicles	<ul style="list-style-type: none"> • The Subcommittee RECOMMENDED to discuss the progress of panel in PCD 25 meeting.

ITEM 5 ANNUAL MEETING CALENDAR

The subcommittee **NOTED** the annual meeting calendar of Sectional Committee / Subcommittee

ITEM 6 VOTE OF THANKS

The meeting ended with a vote of thanks from BIS to the Convenor and all members.



Annex I
Meeting Attendance
(Clause 0.3)

Subcommittee Members:

1. Dr Tarunendr Singh, Bharat Petroleum Corporation Limited, Mumbai (Convenor)
2. Shri P Ramesh, Ashok Leyland Limited, Chennai
3. Shri Madhaba Chandra Dash, Balmer Lawrie and Company Limited, Kolkata
4. Dr Somnath Chattopadhyay, Balmer Lawrie and Company Limited, Kolkata
5. Shri Vishal Kumar Sinha, Bharat Petroleum Corporation Limited, Mumbai
6. Shri Umesh Chandra Dwivedi, Gulf Oil Lubricants India Limited, Mumbai
7. Shri Vijay Deshmukh, Standard Greases & Specialities Private Limited, Mumbai
8. Shri Shrey Garg, The Waxpol Industries Limited, Kolkata
9. Smt. Uma Shankar Upadhyay, The Waxpol Industries Limited, Kolkata

Special Invitee

1. Shri Abhijit A Sarkar, Hindustan Petroleum Corporation Limited, Mumbai
2. Dr Aradhana, Hindustan Petroleum Corporation Limited, Mumbai
3. Shri Deepak, Siddharth Grease and Lubes Private Limited, Gurugram
4. Shri Rohit Kumar Aggarwal, Siddharth Grease and Lubes Private Limited, Gurugram