

**ExxonMobil Fuels, Lubricants &
Specialties Marketing Company**
3225 Gallows Road
Fairfax, VA 22037
United States of America

ExxonMobil
Aviation

Mr. Tobias Ellwood MP
The House of Commons
London SW1A 0AA
United Kingdom

May 24th 2013

Dear Mr. Ellwood,

Thank you for your recent letter regarding cabin air quality in commercial jet aircraft. We reviewed your letter and can offer the following information in response.

Several global industry committees as well as various government agencies have studied cabin air quality and the relevant reports are readily available in the public domain. In general, these studies have concluded that it is not possible, based on existing data, to establish a direct association between cabin air exposures to aircraft engine or lubricating oil fumes and the ill-health reported by some aircraft crew or passengers. The Department of Transport¹ website references several scientific studies that have been conducted on this topic.

In particular, a report published in May 2011 detailing a real time in-flight testing study conducted by Cranfield University, concluded that: "Samples specifically taken during recorded air quality events did not have notably elevated concentrations of any of the individually measured pollutants. Therefore, with respect to the conditions of flight that were experienced during this study, there was no evidence for target pollutants occurring in the cabin air at levels exceeding available health and safety standards and guidelines".

OSHA and ACGIH are two organizations who establish exposure limits for chemical substances in ambient conditions. However, to the best of my knowledge, neither of those organizations have addressed the decomposition product of synthetic jet engine oils.

¹ <https://www.gov.uk/government/publications/cabin-air-quality-faq>

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Numerous studies have been conducted on jet engine oils containing TCP via the oral route of administration. These were thoroughly reviewed in the report commissioned by the UK Department of Transport which is referenced above. ExxonMobil has conducted a 90-day neurotoxicity study in hens with Mobil Jet Oil 254. The study was carried out by the Virginia Tech Institute and State University. It was concluded that MJO 254 should not pose a neurotoxic hazard under realistic conditions of exposure, including those estimated to be possible from dermal and inhalation exposures.

Finally, I would like to add that ExxonMobil is fully committed to being a responsible producer and marketer of lubricant products for the airline industry. Worldwide, ExxonMobil lubricating oils and products are manufactured to comply with all applicable regulations.

Sincerely,

A handwritten signature in black ink, appearing to read 'Frans B. Horjus', written over a horizontal line.

Frans B. Horjus
Global Aviation Lubricants Sales Manager
ExxonMobil Fuels & Lubricants

¹ <https://www.gov.uk/government/publications/cabin-air-quality-faq>