

PETRO-LUBRICANT TESTING LABORATORIES, INC.

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June 28, 2018

Test Report 18062003

Synco Chemical Corporation
24 Da Vinci Drive
P.O. Box 405
Bohemia, NY 11716

ATTN: Ms. Natalia Diaz

RE: Purchase Order No.: P07440

Final Report

Dear Mme.,

Analysis of your sample has been completed. The results are as follows:

SAMPLE: Super Lube Railroad Grease with Syncolon E
Lab# 18062003

<u>TEST METHOD</u>	<u>DESCRIPTION</u>	<u>RESULTS</u>
ASTM D7373	Average Biodegradability as the percent in 28 days Data is attached for your inspection.	61.60% Data Attached

*Extracted oil may not give results equivalent to neat base oil because of oil soluble components in the extracted portion not otherwise present in the neat base stock.

Please call if you have any questions regarding this report.
Respectfully submitted,



Josiah Wintermute
Chief Chemist

JW:em

Attachments (1 ASTM D7373 data sheets)

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ASTM D7373 Biodegradability of Lubricants									
Synco Chemical		Super Lube Railroad Grease with Syncolon E				27-Jun-18		Lab#18062003	
RUN 1					RUN 2				
beaker + sample		beaker	sample - run 1		beaker + sample - run 2		beaker - run 2	sample - run 2	
30.641		28.631	2.010		39.555		37.505	2.050	
beaker (g)	beaker + sample (g)	sample (g)	percent (%)		beaker (g)	beaker + sample (g)	sample (g)	percent (%)	
Pentane	101.249	101.280	0.031	1.525	103.036	103.071	0.035	1.595	
Pentane/ toluene	94.496	94.496	0.000	0.000	105.305	105.305	0.000	0.000	
Ether	104.930	106.778	1.848	90.900	94.025	95.953	1.928	87.876	
chloroform/ ethanol	102.049	102.203	0.154	7.575	92.772	93.003	0.231	10.529	
total recovered			2.033				2.194		
Biodegradability Run 1 (%) =	62.49%				Biodegradability Run 2 (%) =	60.72%			
ECB coefficients - client supplied:	* C _a		0.4		** C _c		0.8		
	ECB =		0.72134489						
Percent of oil predicted to biodegrade in 28 days =					61.60%				
ECB coefficients:	* pentane layer : mineral oil = 0.3 ; PAO 2 = 0.8; PAO 4 = 0.6; PAO 6 or above = 0.4								
	** ether layer: natural ester = 1.0; Renewable based diester = 0.8; Petroleum based ester = 0.01								