



## AMERICAN PETROLEUM INSTITUTE

### **Audit EP2014-0992**

### **Audit - U.S. GLOBAL PETROLEUM - EVEREST FULL SYN**

Engine Oils licensed under API's Engine Oil Licensing and Certification System (EOLCS) are purchased in the marketplace annually and audited to ensure the oils conform to program requirements. Audit candidates may be purchased in containers or drawn from bulk tanks (for example, those found at oil-change locations, service stations, and automotive service facilities). These candidates are chosen from a randomly-generated list of API-licensed oils, or, in the case of bulk engine oils, are purchased from randomly-selected locations.

The licensed oils collected from the marketplace undergo a series of bench tests to ensure the oils meet the performance requirements specified in API Publication 1509 and the EOLCS Application for Licensure. Additionally, the labels from licensed oils purchased in containers are examined to make sure the API Marks—the API Service Symbol “donut” and Certification Mark “Starburst”—are properly displayed and convey accurate information to consumers. All information regarding the collection and examination of the sample, including receipts, images and other documentation, can be found by expanding the ‘Collection Company Results’ section.

API has completed our analysis of the product indicated below. We are pleased to report that this oil complies with the requirements of API's Engine Oil Program and no further action on your part is required at this time.

API appreciates the actions that you have taken to ensure that this product satisfies the requirements of the EOLCS program.

### Audit Information

Status: Complete  
Brand Name: [EVEREST FULL SYN](#)  
Viscosity Grade: 5W-30  
Service Category & Designation: SN Resource Conserving, ILSAC GF-5  
Due Date: N/A  
Blind Sample ID: EP2014-0992  
Sample Type: Packaged  
Date Sample Taken: 26-Aug-2014  
Sample Trace Code: patch#12306 mfg. 07-05-2014

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Sample Type: Packaged  
Date Sample Taken: 26-Aug-2014  
Sample Trace Code: patch#12306 mfg. 07-05-2014

### Collection Company Results

Marketer Name: U.S. GLOBAL PETROLEUM, INC.  
Brand Name: EVEREST FULL SYN  
Viscosity: 5W-30  
Service Category: SN  
Test Protocol: PC46  
CI-4 Plus Claimed: No  
Quantity Collected: 5qts  
Date Purchased: 26-Aug-2014  
Purchased Location Name: Oil Depot  
Purchased Location Type: 1  
Purchased Address:  
3357 Belt Line  
Garland, TX 75044  
United States  
Traceability Code 1: patch#12306 mfg. 07-05-2014  
Donut  
Present: Yes  
Similar To Donut: No  
Outside Diameter: 2.42  
Inside Diameter: 1.28  
Ratio Value: 1.9  
Ratio Conformance: Yes  
Content: Yes  
Content Comments:  
Contrast: Yes  
Contrast Comments:  
General Comments:

Starbust  
Starbust Present: Yes  
Similar To Starburst: No  
Outside Diameter: 2.38  
Inside Diameter: 1.6  
Ratio Value: 1.5  
Ratio Conformance: Yes  
Size Conformance: Yes  
Content: Yes  
Content Comments:  
Contrast: Yes  
Contrast Comments:  
Location: Yes  
Location Comments:  
General Comments:  
Collection Files  
EP2014-0992 FOR1.pdf  
EP2014-0992 LabelBack.jpg  
EP2014-0992 LabelFront.jpg  
EP2014-0992 Rcpt.pdf

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### Results Received

Test	Method	Reported	1509 Range	Expanded Range	Quick Test	Primary Test	Retest 1	Retest 2	Referee Test	Flag
Visc @ 100C - ASTM D445	ASTM D445	10.9	9.30 - 12.49	9.23 - 12.58	*	10.49*	*	*	*	
CCS @ -30C - ASTM D5293	ASTM D5293	6300	<= 6600	<= 7082	*	4860*	*	*	*	
MRV_Pumping @ -35C - ASTM D4684	ASTM D4684	25000	<= 60000	<= 81480	*	16600*	*	*	*	
MRV_Yield Stress - ASTM D4864	ASTM D4684		< 0	< 35	*	<35*	*	*	*	
HT/HS - ASTM D4683	ASTM D4683	3.1	>= 2.90	>= 2.80	*	3.07*	*	*	*	
NOACK - ASTM D5800_Method B	ASTM D5800_Method B	15	<= 15.00	<= 16.01	*	9.3*	*	*	*	
HT Foam-Stab - ASTM D6082	ASTM D6082		<= 0	<= 40	*	0*	*	*	*	
HT Foam-Tend - ASTM D6082	ASTM D6082		<= 100	<= 210	*	110*	*	*	*	
Zinc_Zn	ASTM D4951	0.085	0.0765 - 0.0978	0.0710 - 0.1048	*	0.0847*	*	*	*	
Calcium_Ca	ASTM D4951	0.214	0.1926 - 0.2461	0.1859 - 0.2547	*	0.2101*	*	*	*	
Magnesium_Mg	ASTM D4951		<= 0.0001	<= 0.0040	*	0.0011*	*	*	*	

Test	Method	Reported	1509 Range	Expanded Range	Quick Test	Primary Test	Retest 1	Retest 2	Reference Test	Flag
Sodium_Na	ASTM D4951		<= 0.0010	<= 0.0030	*	<0.0001*	*	*	*	
Titanium_Ti	ASTM D4951		<= 0.0001	<= 0.0020	*	<0.0001*	*	*	*	
Nitrogen_N - ASTM D5762	ASTM D5762	0.102	0.0918 - 0.1173	0.0679 - 0.1478	*	0.085*	*	*	*	
Boron_B	ASTM D4951	0.023	0.0207 - 0.0265	0.0172 - 0.0300	*	0.0233*	*	*	*	
Molybdenum_Mo	ASTM D4951	0.0079	0.0067 - 0.0095	0.0056 - 0.0111	*	0.0082*	*	*	*	
Phosphorus_P	ASTM D4951	0.077	0.0600 - 0.0800	0.0540 - 0.0880	*	0.0771*	*	*	*	
Sulfur_S - ASTM D4951	ASTM D4951	0.3	<= 0.5000	<= 0.5610	*	0.2925*	*	*	*	
Total Base Number - ASTM D2896	ASTM D2896	7.9	7.11 - 9.09	6.61 - 9.72	*	7.9*	*	*	*	
Aluminum_Al	ASTM D4951				*	0.0002*	*	*	*	
Copper_Cu	ASTM D4951				*	<0.0001*	*	*	*	
Silicon_Si	ASTM D4951				*	0.0005*	*	*	*	
Silver_Ag	ASTM D4951				*	<0.0001*	*	*	*	
Barium_Ba	ASTM D4951				*	<0.0001*	*	*	*	
Cadmium_Cd	ASTM D4951				*	<0.0001*	*	*	*	
Chromium_Cr	ASTM D4951				*	<0.0001*	*	*	*	
Iron_Fe	ASTM D4951				*	<0.0001*	*	*	*	
Potassium_K	ASTM D4951				*	<0.0001*	*	*	*	
Manganese_Mn	ASTM D4951				*	<0.0001*	*	*	*	
Nickel_Ni	ASTM D4951				*	<0.0001*	*	*	*	
Lead_Pb	ASTM D4951				*	<0.0001*	*	*	*	
Antimony_Sb	ASTM D4951				*	<0.0001*	*	*	*	
Tin_Sn	ASTM D4951				*	<0.0001*	*	*	*	

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Vanadium_V	ASTM D4951				*	<0.0001*	*	*	*	

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MRV_Yield Stress - ASTM D4864	ASTM D4684		< 0	< 35	*	<35*	*	*	*	
HT/HS - ASTM D4683	ASTM D4683	3.1	>= 2.90	>= 2.80	*	3.07*	*	*	*	
NOACK - ASTM D5800_Method B	ASTM D5800_Method B	15	<= 15.00	<= 16.01	*	9.3*	*	*	*	
HT Foam-Stab - ASTM D6082	ASTM D6082		<= 0	<= 40	*	0*	*	*	*	
HT Foam-Tend - ASTM D6082	ASTM D6082		<= 100	<= 210	*	110*	*	*	*	
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Copper_Cu	ASTM D4951				*	<0.0001*	*	*	*	
Silicon_Si	ASTM D4951				*	0.0005*	*	*	*	
Silver_Ag	ASTM D4951				*	<0.0001*	*	*	*	
Barium_Ba	ASTM D4951				*	<0.0001*	*	*	*	
Cadmium_Cd	ASTM D4951				*	<0.0001*	*	*	*	
Chromium_Cr	ASTM D4951				*	<0.0001*	*	*	*	
Iron_Fe	ASTM D4951				*	<0.0001*	*	*	*	
Potassium_K	ASTM D4951				*	<0.0001*	*	*	*	
Manganese_Mn	ASTM D4951				*	<0.0001*	*	*	*	
Nickel_Ni	ASTM D4951				*	<0.0001*	*	*	*	
Lead_Pb	ASTM D4951				*	<0.0001*	*	*	*	
Antimony_Sb	ASTM D4951				*	<0.0001*	*	*	*	
Tin_Sn	ASTM D4951				*	<0.0001*	*	*	*	
Vanadium_V	ASTM D4951				*	<0.0001*	*	*	*	