

Customer Information

Customer: Petroleum Technologies Group, LLC
Attention: James Kraft
Address: 4665 Broadmoor Ave Ste 150 | Grand Rapids, MI 49512
Email: ; James@oil-lab.com

Component Information

Unit Name: N150645
Manufacturer: Audi A6
Unit Type: Engine - Gasoline
Oil Type: Valvoline Synthetic 5w-30

Element Key

Cu Copper	Fe Iron	Cr Chromium	Al Aluminum	Pb Lead	Sn Tin	Si Silicon	Ca Calcium	Mg Magnesium
Zn Zinc	P Phosphorus	Mo Molybdenum	B Boron	Ag Silver	Ni Nickel	Na Sodium	K Potassium	

Sample Information						ASTM D5185 Wear Metals by ICP-OES (ppm)																
Lab ID	Quarts	Miles	Meter	Date Received	Date Sampled	Cu	Fe	Cr	Al	Pb	Sn	Si	Ca	Mg	Zn	P	Mo	B	Ag	Ni	Na	K
1572949	0	0	105000	2022-02-07	2022-02-07	0	12	0	4	0	0	6	2371	168	1049	912	10	43	0	0	0	0
Job ID:						Comments: All elements are acceptable. Recommend servicing the oil/filters and resampling at a normal interval. NOTE: No Oil Change																
1544193	0	0	95202	2021-08-04	2021-08-02	0	10	0	3	0	0	6	3139	47	1193	1037	6	76	0	0	2	0
Job ID:						Comments: All elements are acceptable. Recommend resampling and changing oil/filters at a normal interval.																
1534150	0	0	92000	2021-06-01	2021-06-01	1	18	0	4	0	0	8	2539	92	1034	896	9	36	0	0	0	0
Job ID:						Comments: All elements are acceptable. Recommend resampling and changing oil/filters at a normal interval.... [Open sample online for full comment]																
1527800	0	812	89312	2021-04-19	2021-04-19	0	12	0	3	1	0	7	2466	86	999	875	8	32	0	0	0	0
Job ID: FACILITY NAME						Comments: All elements are acceptable. Recommend resampling and changing oil/filters at a normal interval.... [Open sample online for full comment]																

FT-IR Analysis (ASTM 2412)								Viscosity (cSt) (ASTM D445)		Advanced Properties				
Lab ID	Oxidation (A/cm)	Nitration (A/cm)	Sulfation (A/cm)	Water (%)	Antifreeze (P/N)	Fuel (%)	Soot (%)	BN (mg KOH/g)	AN (mg KOH/g)	100c	40c	Sulfur (ppm)	Chlorine (ppm)	I-pH (pH Unit)
1572949	8	26	17	<0.1%	No	0.0	0.00			10.2				
1544193	6	20	10	<0.1%	No	0.0	0.00			10.0				
1534150	10	12	16	<0.1%	No	0.0	0.10			9.8				
1527800	10	17	21	<0.1%	No	1.2	0.20			9.7				

Particle Count (Particles per 1mL) (ISO 4406/ISO 11500)								
Lab ID	ISO Class Code	> 4 (µ)	> 6 (µ)	> 10 (µ)	> 14 (µ)	> 25 (µ)	> 50 (µ)	> 100 (µ)
1572949								
1544193								
1534150								
1527800								