



Sample Number : 14200800936
Site Name : Carbonville
Equipment Ref ID :
Equipment Description : Dodge RAM 1500 Truck
Component Ref ID :
Component Description : ENGINE
Manuf./Model : Dodge/ V-6 3.0L
Lubricant Name : Pennzoil Platinum Full Synthetic 5W-30

LubeAnalyst Number : 01369049/EDU01
Carbonville
1399 N 1100 W
Price
Utah
84501
USA

SHELL CONTACTS

Focal point 1 : LubeAnalyst Customer Service

Focal point 1 phone : +18772518313

Shell Website : <http://www.shell-lubeanalyst.shell.com/>

COMMENTS

Check for source of FUEL LEAK (injectors, lines etc.). Fuel is at a SIGNIFICANT LEVEL.

RESULTS

Sample Number	11119800090	14200800931	14200800936
Sample Condition	Action	Action	Action
Sample Date	09/17/2015	12/31/2015	03/03/2016
Equipment Life	9639 Miles	14743 Miles	17500 Miles
Lubricant Life	9639 Miles	5104 Miles	7500 Miles
Top-up Volume	-	-	-
Oil Drain	Yes	No	Yes
Viscosity 100°C			
Visc 100°C cSt	11.1	10.9	10.8
TBN (D 4739)			
TBN (D 4739) mg KOH/g	3.51	4.18	3.39
Water (FT-IR/Crackle)			
Water (FT-IR/Crackle) %	<0.1	<0.1	<0.1
Soot (FT-IR/Wilks)			
Soot (FT-IR/Wilks) % weight	0.1	<0.1	<0.1
Spectrometry (Oils)			
Iron (Fe) ppm	54	25	45
Chromium (Cr) ppm	1	0	2
Nickel (Ni) ppm	0	0	0
Aluminium (Al) ppm	7	2	3
Copper (Cu) ppm	12	3	4
Lead (Pb) ppm	0	0	0
Tin (Sn) ppm	0	0	0
Cadmium (Cd) ppm	0	0	0
Silver (Ag) ppm	2	1	2
Titanium (Ti) ppm	1	0	0
Vanadium (V) ppm	0	0	0
Silicon (Si) ppm	37	11	14
Sodium (Na) ppm	3	1	1
Potassium (K) ppm	11	2	4
Molybdenum (Mo) ppm	0	0	1
Antimony (Sb) ppm	0	0	0
Manganese (Mn) ppm	4	0	0
Lithium (Li) ppm	0	0	0
Boron (B) ppm	1	48	50
Magnesium (Mg) ppm	6	10	9
Calcium (Ca) ppm	1794	1630	1628
Barium (Ba) ppm	1	0	0
Phosphorus (P) ppm	680	686	677
Zinc (Zn) ppm	817	799	803
Fuel Dilution (FIDGC)			
Fuel Dilution (FIDGC) % vol	4.8	5.1	5.0

