



Unit ID: 999 ENGINE
 Client ID: S12446EX
 Unit Type: DIESEL ENGINE
 Unit Make: FREIGHTLINER
 Unit Model: COLUMBIA
 Component: DET SERIES 60
 Make: 12.7L
 Component: DDECIV ENGINE
 Model:

ATTENTION CODE:
NORMAL

Lube Type: SCHAEFFER 7000
 Grade: 15W/40
 Capacity: 9.5 GAL

REMARKS	<p>* WEAR AND CONTAMINATION LEVELS APPEAR NORMAL. * EXTEND OIL DRAIN 3000 MILES AND RESAMPLE.</p>																					
	<p>ATTENTION CODES</p> <p>AAA Acceptable NNN Negative !!!! Critical DDD Critical - Below EEE Excessive **** Severe MMM Moderate CCC Severe - Below ==== Caution BBB Caution - Below ---- Slightly Above Normal LLL Slightly Below Normal TTT Trend</p>																					
	WEAR METALS					MULTISOURCE					ADDITIVES					VISCOSITY						
	IRON	CHROMIUM	LEAD	COPPER	TIN	ALUMINUM	NICKEL	SILVER	TITANIUM	VANADIUM	SILICON	BORON	SODIUM	POTASSIUM	MAGNESIUM	CALCIUM	PHOSPHORUS	ZINC	MOLYBDENUM	BARIUM	VISC 40c cSt	VISC 100c cSt

Lab #: 449183 Dt Tkn: 1/31/2014 Dt Recd: 2/7/2014 MiO: 15040 MiU: 215048 Make Up Oil: 2 qts																						
17	1	2	1	1	1	0	0	0	0	2	31	17	0	896	1194	1216	1437	51	3		13.65	
Lab #: 442539 Dt Tkn: 12/23/2013 Dt Recd: 12/30/2013 MiO: 13733 MiU: 200008 Make Up Oil: 0 qts																						
13	1	2	1	1	1	0	0	0	0	2	17	15	2	885	1161	1104	1429	46	1		13.34	

	AN / BN		PARTICLE COUNT							CONTAMINANTS					FTIR	
	AN	BN	>4(c)	>6(c)	>14(c)	>25(c)	>50(c)	>100(c)	ISO	% WATER	K FISCH	FUEL	GLYC	SOOT	OXI	NIT
449183		7.31							//	< 0.1			NNN	0	3	2
442539		6.12							//	< 0.1			NNN	0.46	13	6

LAB USE ONLY:
 lme

ATTN: CLIFF DOWNING
 MAC TRUCKING
 6274 E 84TH ST N
 KELLOGG, IA50135

