

C-12 - Front Diesel Engine

Linit Males	: PETERBILT							
Unit Make Unit Model	: 357	Serial No	: D827630	Da	te Rec'd	· Im	n 16, 2011	
	: CUMMINS	Cust. Ref No.	$: \{n/a\}$		mple Dat		n 6, 2011	
Comp Make	: ISM				-			~~
Comp Model		Stub No.	: KL-MF008244		-		on Baldrid	-
RECOMMENDATION			Sample Date	07/06/10				UOM
Resample at the next service interval to monitor.			Time on Unit	11522	11991	12448		hrs
i costi i pro ut ut			Time on Oil	442	911	1368		hrs
			Time on Fltr	442	911	1368		hrs
			Oil Maint.	changed	not chg	-	Ũ	
			Filter Maint.	changed	not chg	not chg	changed	
CONTAM	Sample Date	07/06/10	09/23/10	02/07/11	Current	Abn		
	ication of any contami	Silicon	7.1	7.9	9.2	7.0	15	
There is no mu	Fuel (%)	<2.0	<2.0	<2.0	<2.0			
			Glycol					0.02
			Water (%)	< 0.1	< 0.1	< 0.1	< 0.1	0.1
			Soot (%)	0.1	0.2	0.5	0.6	
			>4µm(c)					
			>6µm(c)					
			>14µm(c)					
			>21µm(c)					
			>38µm(c)					
			>70µm(c)					
			ISO 4406(c)					
OIL CONE	DITION		Sample Date	07/06/10	09/23/10	02/07/11	Current	Base
OIL CONI				07/06/10	09/23/10 3.3	02/07/11	Current 3.2	Base 0.0
	DITION AL of SHELL ROTEI	LLA T 15W40	Sample Date					
Oil Type: 12 G			Sample Date Potassium Boron Barium	3.5	3.3	0.0	3.2 12 4.1	0.0
Oil Type: 12 G	AL of SHELL ROTE		Sample Date Potassium Boron	3.5 3.7	3.3 9.2	0.0 12	3.2 12 4.1 2501	0.0 316 0.0 2292
Oil Type: 12 G	AL of SHELL ROTE		Sample Date Potassium Boron Barium Calcium Magnesium	3.5 3.7 0.3 3694 9.6	3.3 9.2 4.2	0.0 12 8.3	3.2 12 4.1	0.0 316 0.0 2292 24
Oil Type: 12 G	AL of SHELL ROTE		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum	3.5 3.7 0.3 3694 9.6 3.0	3.3 9.2 4.2 2634 246 10	0.0 12 8.3 3049 447 19	3.2 12 4.1 2501 276 12	$ \begin{array}{r} 0.0 \\ 316 \\ 0.0 \\ 2292 \\ 24 \\ 1.2 \\ \end{array} $
Oil Type: 12 G	AL of SHELL ROTE		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium	3.5 3.7 0.3 3694 9.6 3.0 1.8	3.3 9.2 4.2 2634 246 10 2.5	0.0 12 8.3 3049 447 19 3.3	3.2 12 4.1 2501 276 12 2.9	$ \begin{array}{r} 0.0 \\ 316 \\ 0.0 \\ 2292 \\ 24 \\ 1.2 \\ 2.4 \\ \end{array} $
Oil Type: 12 G	AL of SHELL ROTE		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus	3.5 3.7 0.3 3694 9.6 3.0 1.8 1171	3.3 9.2 4.2 2634 246 10 2.5 1031	0.0 12 8.3 3049 447 19 3.3 1186	3.2 12 4.1 2501 276 12 2.9 938	$\begin{array}{r} 0.0 \\ \hline 316 \\ 0.0 \\ \hline 2292 \\ 24 \\ \hline 1.2 \\ 2.4 \\ \hline 1064 \end{array}$
Oil Type: 12 G	AL of SHELL ROTE		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur	3.5 3.7 0.3 3694 9.6 3.0 1.8 1171 5736	3.3 9.2 4.2 2634 246 10 2.5 1031 4554	0.0 12 8.3 3049 447 19 3.3 1186 4881	3.2 12 4.1 2501 276 12 2.9 938 3877	$\begin{array}{r} 0.0 \\ \hline 316 \\ 0.0 \\ \hline 2292 \\ 24 \\ \hline 1.2 \\ 2.4 \\ \hline 1064 \\ \hline 4996 \end{array}$
Oil Type: 12 G	AL of SHELL ROTE		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc	3.5 3.7 0.3 3694 9.6 3.0 1.8 1171 5736 1284	3.3 9.2 4.2 2634 246 10 2.5 1031 4554 1172	0.0 12 8.3 3049 447 19 3.3 1186 4881 1315	3.2 12 4.1 2501 276 12 2.9 938 3877 1128	$\begin{array}{c} 0.0 \\ 316 \\ 0.0 \\ 2292 \\ 24 \\ 1.2 \\ 2.4 \\ 1064 \\ 4996 \\ 1160 \end{array}$
Oil Type: 12 G	AL of SHELL ROTE		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C	3.5 3.7 0.3 3694 9.6 3.0 1.8 1171 5736 1284 13.78	3.3 9.2 4.2 2634 246 10 2.5 1031 4554 1172 14.11	0.0 12 8.3 3049 447 19 3.3 1186 4881 1315 13.59	3.2 12 4.1 2501 276 12 2.9 938 3877 1128 13.73	$\begin{array}{c} 0.0 \\ \hline 316 \\ 0.0 \\ \hline 2292 \\ 24 \\ \hline 1.2 \\ 2.4 \\ \hline 1064 \\ 4996 \\ \hline 1160 \\ \hline 14.3 \\ \end{array}$
Oil Type: 12 G	AL of SHELL ROTE		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc	3.5 3.7 0.3 3694 9.6 3.0 1.8 1171 5736 1284	3.3 9.2 4.2 2634 246 10 2.5 1031 4554 1172	0.0 12 8.3 3049 447 19 3.3 1186 4881 1315	3.2 12 4.1 2501 276 12 2.9 938 3877 1128 13.73	$\begin{array}{c} 0.0 \\ 316 \\ 0.0 \\ 2292 \\ 24 \\ 1.2 \\ 2.4 \\ 1064 \\ 4996 \\ 1160 \end{array}$
Oil Type: 12 G	AL of SHELL ROTE		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C	3.5 3.7 0.3 3694 9.6 3.0 1.8 1171 5736 1284 13.78	3.3 9.2 4.2 2634 246 10 2.5 1031 4554 1172 14.11 7.54	0.0 12 8.3 3049 447 19 3.3 1186 4881 1315 13.59 7.30	3.2 12 4.1 2501 276 12 2.9 938 3877 1128 13.73 7.25	$\begin{array}{c} 0.0 \\ \hline 316 \\ 0.0 \\ \hline 2292 \\ 24 \\ \hline 1.2 \\ 2.4 \\ \hline 1064 \\ 4996 \\ \hline 1160 \\ \hline 14.3 \\ \end{array}$
Oil Type: 12 G The condition o	AL of SHELL ROTEI of oil is suitable for fur	ther service.	Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN	3.5 3.7 0.3 3694 9.6 3.0 1.8 1171 5736 1284 13.78 9.52 07/06/10	3.3 9.2 4.2 2634 246 10 2.5 1031 4554 1172 14.11 7.54 09/23/10	0.0 12 8.3 3049 447 19 3.3 1186 4881 1315 13.59 7.30 02/07/11	3.2 12 4.1 2501 276 12 2.9 938 3877 1128 13.73 7.25 Current 	0.0 316 0.0 2292 24 1.2 2.4 1064 4996 1160 14.3 8.5
Oil Type: 12 G The condition o	AL of SHELL ROTE	ther service.	Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron	3.5 3.7 0.3 3694 9.6 3.0 1.8 1171 5736 1284 13.78 9.52 07/06/10 22	3.3 9.2 4.2 2634 246 10 2.5 1031 4554 1172 14.11 7.54 09/23/10 28	0.0 12 8.3 3049 447 19 3.3 1186 4881 1315 13.59 7.30 02/07/11 51	3.2 12 4.1 2501 276 12 2.9 938 3877 1128 13.73 7.25 Current 55	0.0 316 0.0 2292 24 1.2 2.4 1064 4996 1160 14.3 8.5 Abn
Oil Type: 12 G The condition o	AL of SHELL ROTEI of oil is suitable for fur	ther service.	Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron Nickel	3.5 3.7 0.3 3694 9.6 3.0 1.8 1171 5736 1284 13.78 9.52 07/06/10 22 0.0	3.3 9.2 4.2 2634 246 10 2.5 1031 4554 1172 14.11 7.54 09/23/10 28 0.2	0.0 12 8.3 3049 447 19 3.3 1186 4881 1315 13.59 7.30 02/07/11 51 0.2	3.2 12 4.1 2501 276 12 2.9 938 3877 1128 13.73 7.25 Current 55 0.2	0.0 316 0.0 2292 24 1.2 2.4 1064 4996 1160 14.3 8.5 Abn
Oil Type: 12 G The condition o	AL of SHELL ROTEI of oil is suitable for fur	ther service.	Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron Nickel Chromium	3.5 3.7 0.3 3694 9.6 3.0 1.8 1171 5736 1284 13.78 9.52 07/06/10 022 0.0 1.9	3.3 9.2 4.2 2634 246 10 2.5 1031 4554 1172 14.11 7.54 09/23/10 28 0.2 1.6	0.0 12 8.3 3049 447 19 3.3 1186 4881 1315 13.59 7.30 02/07/11 51 0.2 2.6	3.2 12 4.1 2501 276 12 2.9 938 3877 1128 13.73 7.25 Current 55 0.2 2.3	0.0 316 0.0 2292 24 1.2 2.4 1064 4996 1160 14.3 8.5 Abn
Oil Type: 12 G. The condition o	AL of SHELL ROTEI of oil is suitable for fur	ther service.	Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron Nickel Chromium Titanium	3.5 3.7 0.3 3694 9.6 3.0 1171 5736 1284 13.78 9.52 07/06/10 22 0.0 1.9 0.7	3.3 9.2 4.2 2634 246 10 2.5 1031 4554 1172 14.11 7.54 09/23/10 28 0.2 1.6 0.2	0.0 12 8.3 3049 447 19 3.3 1186 4881 1315 13.59 7.30 02/07/11 51 0.2 2.6 1.2	3.2 12 4.1 2501 276 12 2.9 938 3877 1128 13.73 7.25 Current 55 0.2 2.3 0.0	0.0 316 0.0 2292 24 1.2 2.4 1064 4996 1160 14.3 8.5 Abn
Oil Type: 12 G. The condition o	AL of SHELL ROTEI of oil is suitable for fur	ther service.	Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron Nickel Chromium Titanium Copper	3.5 3.7 0.3 3694 9.6 3.0 1171 5736 1284 13.78 9.52 07/06/10 22 0.0 1.9 0.7 3.9	3.3 9.2 4.2 2634 246 10 2.5 1031 4554 1172 14.11 7.54 09/23/10 28 0.2 1.6 0.2 5.3	0.0 12 8.3 3049 447 19 3.3 1186 4881 1315 13.59 7.30 02/07/11 51 0.2 2.6 1.2 19	3.2 12 4.1 2501 276 12 2.9 938 3877 1128 13.73 7.25 Current 55 0.2 2.3 0.0 20	0.0 316 0.0 2292 24 1.2 2.4 1064 4996 1160 14.3 8.5 Abn
Oil Type: 12 G. The condition o	AL of SHELL ROTEI of oil is suitable for fur	ther service.	Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron Nickel Chromium Titanium Copper Aluminum	3.5 3.7 0.3 3694 9.6 3.0 1.8 1171 5736 1284 13.78 9.52 07/06/10 22 0.0 1.9 0.7 3.9 4.0	3.3 9.2 4.2 2634 246 10 2.5 1031 4554 1172 14.11 7.54 09/23/10 28 0.2 1.6 0.2 5.3 2.7	0.0 12 8.3 3049 447 19 3.3 1186 4881 1315 13.59 7.30 02/07/11 51 0.2 2.6 1.2 19 3.3	3.2 12 4.1 2501 276 12 2.9 938 3877 1128 13.73 7.25 Current 55 0.2 2.3 0.0 20 2.5	0.0 316 0.0 2292 24 1.2 2.4 1064 4996 1160 14.3 8.5 Abn
Oil Type: 12 G. The condition o	AL of SHELL ROTEI of oil is suitable for fur	ther service.	Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron Nickel Chromium Titanium Copper Aluminum	3.5 3.7 0.3 3694 9.6 3.0 1171 5736 1284 13.78 9.52 07/06/10 022 00,00 1.9 0.7 3.9 4.0 0.9	3.3 9.2 4.2 2634 246 10 2.5 1031 4554 1172 14.11 7.54 09/23/10 28 0.2 1.6 0.2 5.3 2.7 2.2	0.0 12 8.3 3049 447 19 3.3 1186 4881 1315 13.59 7.30 02/07/11 51 0.2 2.6 1.2 19 3.3 0.0	3.2 12 4.1 2501 276 12 2.9 938 3877 1128 13.73 7.25 Current 55 0.2 2.3 0.0 200 2.5 2.7	0.0 316 0.0 2292 24 1.2 2.4 1064 4996 1160 14.3 8.5 Abn
Oil Type: 12 G. The condition o	AL of SHELL ROTEI of oil is suitable for fur	ther service.	Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron Nickel Chromium Titanium Copper Aluminum	3.5 3.7 0.3 3694 9.6 3.0 1.8 1171 5736 1284 13.78 9.52 07/06/10 22 0.0 1.9 0.7 3.9 4.0	3.3 9.2 4.2 2634 246 10 2.5 1031 4554 1172 14.11 7.54 09/23/10 28 0.2 1.6 0.2 5.3 2.7	0.0 12 8.3 3049 447 19 3.3 1186 4881 1315 13.59 7.30 02/07/11 51 0.2 2.6 1.2 19 3.3	3.2 12 4.1 2501 276 12 2.9 938 3877 1128 13.73 7.25 Current 55 0.2 2.3 0.0 200 2.5 2.7	0.0 316 0.0 2292 24 1.2 2.4 1064 4996 1160 14.3 8.5 Abn

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