

## NORMAL NORMAL NORMAL

## 315 - Rear Natural Gas Engine

Unit Make : 3	00 BUS								
e inte infante	n/a}	Serial No	: { n/a	}	Da	te Rec'd	• Iur	n 20, 2011	
	CUMMINS	Cust. Ref No.	: {n/a	-		mple Dat		iy 31, 2011	1
comp mane	-10	Stub No.	-	M2215444		-		oug Bogar	
e omp moder		Stub No.	. KL-N			•			
RECOMMENDATION				Sample Date	07/07/10				UOM
Resample at the next service interval to monitor.				Time on Unit	485924	485924		509828	mls
*				Time on Oil	7633	2840	3000	6000	mls
				Time on Fltr Oil Maint.	0	2840	3000	6000	mls
				Filter Maint.	not chg	n/a	v	-	
					Ű	not chg	-	÷	
<b>CONTAMINATION</b> There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.				Sample Date		07/28/10			Abn
				Silicon	4.6	7.4	4.5	4.8	15
				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	0	0	0	
				>4µm(c)		64	589	397	
				>6µm(c)		34	321	216	
				$>14\mu m(c)$		5	54	36	
				$>21\mu m(c)$		2	18	12	
				$>38\mu m(c)$		0	2	1	
				>70µm(c) ISO 4406(c)		0	$\frac{0}{16/12}$	0 15/12	
				15U 4400(C)		12/10	16/13	1J/1Z	
				,					
<b>OIL CONDIT</b>	ION			Sample Date	07/07/10				Base
				Sample Date Potassium	0.0	11	0.0	15	Base
Oil Type: 36 QTS o	of CHEVRON HI	DAX LOW ASH 15W40		Sample Date Potassium Boron	<b>0.0</b> 6.9	11 7.4	0.0 7.5	15 6.4	Base
	of CHEVRON HI			Sample Date Potassium Boron Barium	0.0 6.9 0.0	11 7.4 1.4	0.0 7.5 1.0	15 6.4 0.0	Base
Oil Type: 36 QTS o	of CHEVRON HI			Sample Date Potassium Boron Barium Calcium	0.0 6.9 0.0 1189	11 7.4 1.4 1149	0.0 7.5 1.0 1272	15 6.4 0.0 1401	Base
Oil Type: 36 QTS o	of CHEVRON HI			Sample Date Potassium Boron Barium Calcium Magnesium	0.0 6.9 0.0 1189 10	11 7.4 1.4 1149 4.1	0.0 7.5 1.0 1272 4.5	15 6.4 0.0 1401 0.3	Base
Oil Type: 36 QTS o	of CHEVRON HI			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum	0.0 6.9 0.0 1189 10 4.7	11 7.4 1.4 1149 4.1 5.1	0.0 7.5 1.0 1272 4.5 3.9	15 6.4 0.0 1401 0.3 175	Base
Oil Type: 36 QTS o	of CHEVRON HI			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium	0.0           6.9           0.0           1189           10           4.7           1.0	11 7.4 1.4 1149 4.1 5.1 0.6	0.0 7.5 1.0 1272 4.5 3.9 0.7	15 6.4 0.0 1401 0.3 175 19	Base
Oil Type: 36 QTS o	of CHEVRON HI			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus	0.0           6.9           0.0           1189           10           4.7           1.0           264	11 7.4 1.4 1149 4.1 5.1 0.6 268	0.0 7.5 1.0 1272 4.5 3.9 0.7 297	15 6.4 0.0 1401 0.3 175 19 307	Base
Oil Type: 36 QTS o	of CHEVRON HI			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur	0.0           6.9           0.0           1189           10           4.7           1.0           264           2271	11 7.4 1149 4.1 5.1 0.6 268 2386	0.0 7.5 1.0 1272 4.5 3.9 0.7 297 2369	15 6.4 0.0 1401 0.3 175 19 307 2174	Base
Oil Type: 36 QTS o	of CHEVRON HI			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc	0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353	11 7.4 1.4 1149 4.1 5.1 0.6 268 2386 307	0.0 7.5 1.0 1272 4.5 3.9 0.7 297 2369 328	15 6.4 0.0 1401 0.3 175 19 307 2174 353	
Oil Type: 36 QTS o	of CHEVRON HI			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C	0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41	11 7.4 1149 4.1 5.1 0.6 268 2386	0.0 7.5 1.0 1272 4.5 3.9 0.7 297 2369	15 6.4 0.0 1401 0.3 175 19 307 2174	
Oil Type: 36 QTS of The condition of oil	of CHEVRON HI			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN	0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99	11 7.4 1.4 1149 4.1 5.1 0.6 268 2386 307 13.00	0.0 7.5 1.0 1272 4.5 3.9 0.7 297 2369 328 12.76	15 6.4 0.0 1401 0.3 175 19 307 2174 353 12.62 	14.4 5.3
Oil Type: 36 QTS o	of CHEVRON HI			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date	0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99	11 7.4 1.4 1149 4.1 5.1 0.6 268 2386 307 13.00 	0.0 7.5 1.0 1272 4.5 3.9 0.7 297 2369 328 12.76  12/10/10	15 6.4 0.0 1401 0.3 175 19 307 2174 353 12.62  Current	
Oil Type: 36 QTS of The condition of oil	of CHEVRON HI l is suitable for fu	rther service.		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ	0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99           07/07/10	11 7.4 1149 4.1 5.1 0.6 268 2386 307 13.00  07/28/10 	0.0 7.5 1.0 1272 4.5 3.9 0.7 297 2369 328 12.76  12/10/10	15 6.4 0.0 1401 0.3 175 19 307 2174 353 12.62  Current 	14.4 5.3 Abn
Oil Type: 36 QTS of The condition of oil	of CHEVRON HI l is suitable for fu	rther service.		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron	0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99           07/07/10              3.1	11 7.4 1149 4.1 5.1 0.6 268 2386 307 13.00  07/28/10  4.7	0.0 7.5 1.0 1272 4.5 3.9 0.7 2369 328 12.76  12/10/10 	15 6.4 0.0 1401 0.3 175 19 307 2174 353 12.62  Current  4.9	14.4 5.3 Abn
Oil Type: 36 QTS of The condition of oil	of CHEVRON HI l is suitable for fu	rther service.		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron Nickel	0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99           07/07/10              3.1           0.0	11 7.4 1.4 1149 4.1 5.1 0.6 268 2386 307 13.00  07/28/10  4.7 0.2	0.0 7.5 1.0 1272 4.5 3.9 0.7 2369 328 12.76  12/10/10  5.7 0.3	15 6.4 0.0 1401 0.3 175 19 307 2174 353 12.62  Current  4.9 0.3	
Oil Type: 36 QTS of The condition of oil	of CHEVRON HI l is suitable for fu	rther service.		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron Nickel Chromium	0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99           07/07/10              3.1           0.0           0.0	11 7.4 1.4 1149 4.1 5.1 0.6 268 2386 307 13.00  07/28/10  4.7 0.2 0.2	0.0 7.5 1.0 1272 4.5 3.9 0.7 2369 328 12.76  12/10/10  5.7 0.3 0.1	15 6.4 0.0 1401 0.3 175 19 307 2174 353 12.62  Current  4.9 0.3 1.0	
Oil Type: 36 QTS of The condition of oil	of CHEVRON HI l is suitable for fu	rther service.		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron Nickel Chromium Titanium	0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99           07/07/10              3.1           0.0           0.0           0.0	11 7.4 1.4 1149 4.1 5.1 0.6 268 2386 307 13.00  07/28/10  4.7 0.2 0.2 0.2 0.2 0.2	0.0 7.5 1.0 1272 4.5 3.9 0.7 297 2369 328 12.76  12/10/10  5.7 0.3 0.1 0.9	15 6.4 0.0 1401 0.3 175 19 307 2174 353 12.62  Current  4.9 0.3 1.0 0.3	14.4 5.3 Abn   
Oil Type: 36 QTS of The condition of oil	of CHEVRON HI l is suitable for fu	rther 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	0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99           07/07/10              3.1           0.0           0.0           0.0           2.1	11 7.4 1.4 1149 4.1 5.1 0.6 268 2386 307 13.00  07/28/10  07/28/10  4.7 0.2 0.2 0.2 0.6 3.6	0.0 7.5 1.0 1272 4.5 3.9 0.7 2369 328 12.76  12/10/10  5.7 0.3 0.1 0.9 1.8	15 6.4 0.0 1401 0.3 175 19 307 2174 353 12.62  Current  4.9 0.3 1.0 0.3 2.3	14.4 5.3 Abn   
Oil Type: 36 QTS of The condition of oil	of CHEVRON HI l is suitable for fu	rther 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	0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99           07/07/10              3.1           0.0           0.0           0.0           2.1           1.4	11 7.4 1149 4.1 5.1 0.6 268 2386 307 13.00  07/28/10  4.7 0.2 0.2 0.2 0.2 0.6 3.6 1.1	0.0 7.5 1.0 1272 4.5 3.9 0.7 2369 328 12.76  12/10/10  5.7 0.3 0.1 0.9 1.8 0.9	15 6.4 0.0 1401 0.3 175 19 307 2174 353 12.62  Current  4.9 0.3 1.0 0.3 2.3 4.3	14.4 5.3 Abn    
Oil Type: 36 QTS of The condition of oil	of CHEVRON HI l is suitable for fu	rther 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	0.0           6.9           0.0           1189           10           4.7           1.0           264           2271           353           13.41           4.99           07/07/10              3.1           0.0           0.0           0.0           2.1	11 7.4 1.4 1149 4.1 5.1 0.6 268 2386 307 13.00  07/28/10  07/28/10  4.7 0.2 0.2 0.2 0.6 3.6	0.0 7.5 1.0 1272 4.5 3.9 0.7 2369 328 12.76  12/10/10  5.7 0.3 0.1 0.9 1.8	15 6.4 0.0 1401 0.3 175 19 307 2174 353 12.62  Current  4.9 0.3 1.0 0.3 2.3	14.4 5.3 Abn   

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