

CONTAMINATION OIL CONDITION WEAR

NORMAL

NORMAL

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Langston Drilling - RIG 12 FLOOR #1

	~				ingston	Diming	5 100		
Unit Make	: CATERPILLAR		. (/		D		T	24 2000	
Unit Model Comp Make	: 3408 : {n/a}	Serial No Cust. Ref No	: {n/a . : {n/a	-		ate Rec'd ample Dat		24, 2008 17, 2008	
Comp Make	$\{n/a\}$: $\{n/a\}$	Stub No.	, i	-MF003738		iagnosticia			ter
-		5100 110.	. ILL			03/29/07			UOM
RECOMMENDATION			Sample Date Time on Unit	02/13/07	03/29/07	0	0	hrs	
Resample at the next service interval to monitor.				Time on Oil	600	1200	504	1096	hrs
				Time on Fltr	600	1200	504	1090	hrs
				Oil Maint.	changed	changed	not chg	n/a	
				Filter Maint.	changed	changed	not chg		
CONTAN	ΙΝΑΤΙΟΝ					03/29/07	-		Abn
CONTAM				Sample Date Silicon	5.2		3.5		Abli
There is no indication of any contamination in the component.				Fuel (%)	<2.0		<2.0		
				Glycol	~2.0	<2.0	~2.0	~2.0	
				Water (%)	< 0.1	< 0.1	< 0.1	< 0.1	
				Soot (%)	0.1	0.4	0.6		
				>2µm	1770				
				>5µm	654	1553			
				>15µm	70				
				>25µm	16	39			
				>50µm	1	3			
				>100µm	0	0			
				100 4406	17/13	18/15			
				ISO 4406	1//15	10/13			
OIL CONI	DITION			Sample Date		03/29/07			Base
OIL CON	DITION					03/29/07			Base
	DITION GAL of CHEVRON	15W40		Sample Date	02/15/07	03/29/07 0.0	12/13/07	Current 0.0	Base
Oil Type: 11 C				Sample Date Potassium	02/15/07	03/29/07 0.0 9.1	12/13/07 0.7	Current 0.0 0.0	Base
Oil Type: 11 C	GAL of CHEVRON			Sample Date Potassium Boron	02/15/07 0.0 7.5	03/29/07 0.0 9.1	12/13/07 0.7 3.5	Current 0.0 0.0	Base
Oil Type: 11 C	GAL of CHEVRON			Sample Date Potassium Boron Barium Calcium Magnesium	02/15/07 0.0 7.5 0.0 627 940	03/29/07 0.0 9.1 0.0 381 887	12/13/07 0.7 3.5 0.0 3177 19	Current 0.0 0.0 3317 8.2	Base
Oil Type: 11 C	GAL of CHEVRON			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum	02/15/07 0.0 7.5 0.0 627 940 3.1	03/29/07 0.0 9.1 0.0 381 887 0.0	12/13/07 0.7 3.5 0.0 3177 19 1.5	Current 0.0 0.0 3317 8.2 0.0	Base
Oil Type: 11 C	GAL of CHEVRON			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium	02/15/07 0.0 7.5 0.0 627 940 3.1 6.9	03/29/07 0.0 9.1 0.0 381 887 0.0 7.6	12/13/07 0.7 3.5 0.0 3177 19 1.5 2.2	Current 0.0 0.0 3317 8.2 0.0 0.0	Base
Oil Type: 11 C	GAL of CHEVRON			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus	02/15/07 0.0 7.5 0.0 627 940 3.1 6.9 759	03/29/07 0.0 9.1 0.0 381 887 0.0 7.6 712	12/13/07 0.7 3.5 0.0 3177 19 1.5 2.2 1178	Current 0.0 0.0 3317 8.2 0.0 0.0 1186	Base
Oil Type: 11 C	GAL of CHEVRON			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur	02/15/07 0.0 7.5 0.0 627 940 3.1 6.9 759 6820	03/29/07 0.0 9.1 0.0 381 887 0.0 7.6 712 5897	12/13/07 0.7 3.5 0.0 3177 19 1.5 2.2 1178 5183	Current 0.0 0.0 3317 8.2 0.0 1186 5453	Base
Oil Type: 11 C	GAL of CHEVRON			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc	02/15/07 0.0 7.5 0.0 627 940 3.1 6.9 759 6820 969	03/29/07 0.0 9.1 0.0 381 887 0.0 7.6 712 5897 820	12/13/07 0.7 3.5 0.0 3177 19 1.5 2.2 1178 5183 1275	Current 0.0 0.0 3317 8.2 0.0 0.0 1186 5453 1314	
Oil Type: 11 C	GAL of CHEVRON			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C	02/15/07 0.0 7.5 0.0 627 940 3.1 6.9 759 6820 969 15.4	03/29/07 0.0 9.1 0.0 381 887 0.0 7.6 712 5897 820 15.68	12/13/07 0.7 3.5 0.0 3177 19 1.5 2.2 1178 5183 1275 13.8	Current 0.0 0.0 3317 8.2 0.0 0.0 1186 5453 1314 14.2	Base
Oil Type: 11 C	GAL of CHEVRON			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN	02/15/07 0.0 7.5 0.0 627 940 3.1 6.9 759 6820 969 15.4 4.51	03/29/07 0.0 9.1 0.0 381 887 0.0 7.6 712 5897 820 15.68 4.03	12/13/07 0.7 3.5 0.0 3177 19 1.5 2.2 1178 5183 1275 13.8 9.33	Current 0.0 0.0 3317 8.2 0.0 1186 5453 1314 14.2 9.69	
Oil Type: 11 C	GAL of CHEVRON			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date	02/15/07 0.0 7.5 0.0 627 940 3.1 6.9 759 6820 969 15.4 4.51 02/15/07	03/29/07 0.0 9.1 0.0 381 887 0.0 7.6 712 5897 820 15.68 4.03 03/29/07	12/13/07 0.7 3.5 0.0 3177 19 1.5 2.2 1178 5183 1275 13.8 9.33 12/13/07	Current 0.0 0.0 3317 8.2 0.0 0.0 1186 5453 1314 14.2 9.69 Current	
Oil Type: 11 C The condition	GAL of CHEVRON	urther service.		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date Iron	02/15/07 0.0 7.5 0.0 627 940 3.1 6.9 759 6820 969 15.4 4.51 02/15/07 57	03/29/07 0.0 9.1 0.0 381 887 0.0 7.6 712 5897 820 15.68 4.03 03/29/07 57	12/13/07 0.7 3.5 0.0 3177 19 1.5 2.2 1178 5183 1275 13.8 9.33 12/13/07 11	Current 0.0 0.0 3317 8.2 0.0 0.1 0.0 1186 5453 1314 14.2 9.69 Current 16	14.4 Abn
Oil Type: 11 C The condition	GAL of CHEVRON of oil is suitable for fu	urther service.		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date Iron Nickel	02/15/07 0.0 7.5 0.0 627 940 3.1 6.9 759 6820 969 15.4 4.51 02/15/07 57 0.7	03/29/07 0.0 9.1 0.0 381 887 0.0 7.6 712 5897 820 15.68 4.03 03/29/07 57 1.1	12/13/07 0.7 3.5 0.0 3177 19 1.5 2.2 1178 5183 1275 13.8 9.33 12/13/07 11 0.0	Current 0.0 0.0 3317 8.2 0.0 0.1 0.0 1186 5453 1314 14.2 9.69 Current 16 0.0	
Oil Type: 11 C The condition	GAL of CHEVRON of oil is suitable for fu	urther service.		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date Iron Nickel Chromium	02/15/07 0.0 7.5 0.0 627 940 3.1 6.9 759 6820 969 15.4 4.51 02/15/07 57 0.7 1.9	03/29/07 0.0 9.1 0.0 381 887 0.0 7.6 712 5897 820 15.68 4.03 03/29/07 57 1.1 3.3	12/13/07 0.7 3.5 0.0 3177 19 1.5 2.2 1178 5183 1275 13.8 9.33 12/13/07 11 0.0 1.4	Current 0.0 0.0 3317 8.2 0.0 1186 5453 1314 14.2 9.69 Current 16 0.0 0.0	14.4 Abn
Oil Type: 11 C The condition	GAL of CHEVRON of oil is suitable for fu	urther service.		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date Iron Nickel Chromium Titanium	02/15/07 0.0 7.5 0.0 627 940 3.1 6.9 759 6820 969 15.4 4.51 02/15/07 57 0.7 1.9 0.0	03/29/07 0.0 9.1 0.0 381 887 0.0 7.6 712 5897 820 15.68 4.03 03/29/07 57 1.1 3.3 0.0	12/13/07 0.7 3.5 0.0 3177 19 1.5 2.2 1178 5183 1275 13.8 9.33 12/13/07 11 0.0 1.4 0.2	Current 0.0 0.0 3317 8.2 0.0 0.1186 5453 1314 14.2 9.69 Current 16 0.0 0.0 0.0	
Oil Type: 11 C The condition	GAL of CHEVRON of oil is suitable for fu	urther service.		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date Iron Nickel Chromium Titanium Copper	02/15/07 0.0 7.5 0.0 627 940 3.1 6.9 759 6820 969 15.4 4.51 02/15/07 57 0.7 1.9 0.0 60	03/29/07 0.0 9.1 0.0 381 887 0.0 7.6 712 5897 820 15.68 4.03 03/29/07 57 1.1 3.3 0.0 42	12/13/07 0.7 3.5 0.0 3177 19 1.5 2.2 1178 5183 1275 13.8 9.33 12/13/07 11 0.0 1.4 0.2 1.5	Current 0.0 0.0 3317 8.2 0.0 0.1 0.0 1186 5453 1314 14.2 9.69 Current 16 0.0 0.0 0.0 0.0	Abn
Oil Type: 11 C The condition	GAL of CHEVRON of oil is suitable for fu	urther service.		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date Iron Nickel Chromium Titanium Copper Aluminum	02/15/07 0.0 7.5 0.0 627 940 3.1 6.9 759 6820 969 15.4 4.51 02/15/07 57 0.7 1.9 0.0 60 4.9	03/29/07 0.0 9.1 0.0 381 887 0.0 7.6 712 5897 820 15.68 4.03 03/29/07 57 1.1 3.3 0.0 42 4.9	12/13/07 0.7 3.5 0.0 3177 19 1.5 2.2 1178 5183 1275 13.8 9.33 12/13/07 11 0.0 1.4 0.2 1.5 3.4	Current 0.0 0.0 3317 8.2 0.0 0.1 0.0 1186 5453 1314 14.2 9.69 Current 16 0.0 0.0 0.0 0.0 0.0 0.0	Abn
Oil Type: 11 C The condition	GAL of CHEVRON of oil is suitable for fu	urther service.		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date Iron Nickel Chromium Titanium Copper Aluminum	02/15/07 0.0 7.5 0.0 627 940 3.1 6.9 759 6820 969 15.4 4.51 02/15/07 57 0.7 1.9 0.0 60 4.9 0.0	03/29/07 0.0 9.1 0.0 381 887 0.0 7.6 712 5897 820 15.68 4.03 03/29/07 57 1.1 3.3 0.0 42 4.9 0.0	12/13/07 0.7 3.5 0.0 3177 19 1.5 2.2 1178 5183 1275 13.8 9.33 12/13/07 11 0.0 1.4 0.2 1.5 3.4 0.0	Current 0.0 0.0 3317 8.2 0.0 1186 5453 1314 14.2 9.69 Current 16 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Abn
Oil Type: 11 C The condition	GAL of CHEVRON of oil is suitable for fu	urther service.		Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date Iron Nickel Chromium Titanium Copper Aluminum	02/15/07 0.0 7.5 0.0 627 940 3.1 6.9 759 6820 969 15.4 4.51 02/15/07 57 0.7 1.9 0.0 60 4.9	03/29/07 0.0 9.1 0.0 381 887 0.0 7.6 712 5897 820 15.68 4.03 03/29/07 57 1.1 3.3 0.0 42 4.9 0.0 1.5	12/13/07 0.7 3.5 0.0 3177 19 1.5 2.2 1178 5183 1275 13.8 9.33 12/13/07 11 0.0 1.4 0.2 1.5 3.4 0.0	Current 0.0 0.0 3317 8.2 0.0 1186 5453 1314 14.2 9.69 Current 16 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Abn

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