

CONTAMINATION OIL CONDITION WEAR NORMAL NORMAL

#177 - Diesel Engine

Unit Make : INTERNATIONAL

Unit Model : 9400I Serial No : $\{n/a\}$ Date Rec'd : Feb 8, 2012 : CATERPILLAR Cust. Ref No. Sample Date : Dec 12, 2011 $: \{n/a\}$ Comp Make : C-15 ACERT Stub No. Diagnostician : Don Baldridge Comp Model : KL-MFA01867

RECOMMENDATION Resample at the next service interval to monitor. Sample Date 06/04/11 08/05/11 19 Time on Unit 631724 654867 19 Time on Oil 27000 50000 19		
Resample at the part service interval to monitor. Time on Unit 631724 654867	0/08/11 Currer	t UOM
Time on Oil 27000 50000	675927 69643	6 mls
	71000 9200	
Time on Fltr 27000 50000	71000 9200	0 mls
	not chg change	ed
Filter Maint. not chg not chg	not chg change	ed
CONTAMINATION Sample Date 06/04/11 08/05/11 1	0/08/11 Currer	ıt Abn
Silicon 4.6 4.7	4.8 5.	8 15
There is no indication of any contamination in the component. Fuel (%) <2.0 <2.0	<2.0 <2.	0
Glycol		0.02
Water (%) <0.1 <0.1	<0.1	1 0.1
Soot (%) 0.3 0.3	0.4	3
>4μm(c) 8538		
>6μm(c) 4651		
>14µm(c) 792		
>21μm(c) 267		
>38μm(c) 41		
>70μm(c) 4		
ISO 4406(c) 19/17		
OIL CONDITION Sample Date 06/04/11 08/05/11 1	0/08/11 Currer	t Base
Potassium 0.0 1.7	0.6 2.	9
Oil Type: 40 QTS of CITGO CITGUARD 600 15W40 Boron 7.4 11		2
The condition of oil is suitable for further service. Barium 0.1 0.0	0.0	
Calcium 2011 2004	2331 298	_
Magnesium 58 34		2
	7.0	
Molybdenum 4.5 7.1		7
Molybdenum 4.5 7.1 Sodium 1.9 1.9	1.4 2.	7
Molybdenum 4.5 7.1 Sodium 1.9 1.9 Phosphorus 825 861	1.4 2. 897 114	7 9
Molybdenum 4.5 7.1 Sodium 1.9 1.9 Phosphorus 825 861 Sulfur 2910 2780	1.4 2. 897 114 2884 366	7 9 0
Molybdenum 4.5 7.1 Sodium 1.9 1.9 Phosphorus 825 861 Sulfur 2910 2780 Zinc 981 1011	1.4 2. 897 114 2884 366 1091 137	7 9 0 8
Molybdenum 4.5 7.1 Sodium 1.9 1.9 Phosphorus 825 861 Sulfur 2910 2780 Zinc 981 1011 Visc@100°C 12.61 13.03	1.4 2. 897 114 2884 366 1091 137 13.14 13.0	7 9 0 0 8 8
Molybdenum 4.5 7.1 Sodium 1.9 1.9 Phosphorus 825 861 Sulfur 2910 2780 Zinc 981 1011	1.4 2. 897 114 2884 366 1091 137	7 9 0 0 8 8
Molybdenum 4.5 7.1 Sodium 1.9 1.9 Phosphorus 825 861 Sulfur 2910 2780 Zinc 981 1011 Visc@100°C 12.61 13.03 TBN 7.47 6.48	1.4 2. 897 114 2884 366 1091 137 13.14 13.0 7.2 7.7	7 9 0 8 8 3 6
Molybdenum 4.5 7.1 Sodium 1.9 1.9 Phosphorus 825 861 Sulfur 2910 2780 Zinc 981 1011 Visc@100°C 12.61 13.03 TBN 7.47 6.48 Sample Date 06/04/11 08/05/11 19 PQ	1.4 2. 897 114 2884 366 1091 137 13.14 13.0 7.2 7.7	7 9 0 8 3 6
Molybdenum	1.4 2. 897 114 2884 366 1091 137 13.14 13.0 7.2 7.7 10/08/11 Currer 103 14	7 9 0 88 3 66
Molybdenum	1.4 2. 897 114 2884 366 1091 137 13.14 13.0 7.2 7.7 0/08/11 Currer 103 14 0.5 0	7 9 0 8 3 6
Molybdenum	1.4 2. 897 114 2884 366 1091 137 13.14 13.0 7.2 7.7 10/08/11 Currer 103 14 0.5 0. 1.8 2	7 9 0 8 3 6
Molybdenum	1.4 2. 897 114 2884 366 1091 137 13.14 13.0 7.2 7.7 0/08/11 Currer 103 14 0.5 0. 1.8 2. 8.2 1	7 9 0 8 3 6
Molybdenum	1.4 2. 897 114 2884 366 1091 137 13.14 13.0 7.2 7.7 0/08/11 Currer 103 14 0.5 0. 1.8 2. 8.2 1 8.9 1	7 9 0
Molybdenum	1.4 2.897 114 2884 366 1091 137 13.14 13.0 7.2 7.7 10/08/11 Currer 103 14 0.5 0. 1.8 2. 8.2 1 8.9 1 2.0 2.	7 9 0 8 8 3 3 6
Molybdenum	1.4 2.897 114 2884 366 1091 137 13.14 13.0 7.2 7.7 10/08/11 Currer	7 9 0 8 8 3 6