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QUEST AVIATION INC
ATTN MARK LEHRKAMP
4440 E HWY 12
ABERDEEN SD 57401

ANALYSIS RESULTS - ENGINE S/N: 1000156

Print Date: 1/8/2019
Engine Model: CONT 360
Aircraft Type: CIRRUS SR20
Aircraft S/N: 1258
Tail No.: N777ND-FRT

Values in (parentheses) below your results are average values from all our analysis data for the same engine model with similar engine hours and oil hours. See www.avlab.com explain for detailed explanation of the statistical analysis used with your laboratory results.

**** CURRENT** SAMPLE APPEARS NORMAL. Send next sample at normal interval. A.L.A.R.M. Meter: Normal Elevated High

Sample Date: 11/20/2017
Analysis Date: 11/30/2017
Sample Number: P31
Cylinder Type: STEEL
TSN/TSO: 848.9
Oil Hours: 33.9
Filter Hours: 33.9
Oil Added:
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
44 (40.9)	2.6 (3.7)	7.2 (6.0)	6.5 (5.2)	N/A	N/A	2.3 (5.2)	3184 (3,495)	1.9 (5.3)	N/A	0.2 (0.5)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments: ALL OIL VALUES SEEM FINE. WE WILL CONTINUE TO MONITOR THIS ENGINE WITH YOUR NEXT SAMPLE.

**** PREVIOUS 1** SAMPLE APPEARS NORMAL. Send next sample at normal interval. A.L.A.R.M. Meter: Normal Elevated High

Sample Date: 6/29/2017
Analysis Date: 7/28/2017
Sample Number: P17
Cylinder Type: STEEL
TSN/TSO: 815
Oil Hours: 34.5
Filter Hours: 34.5
Oil Added:
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
48.2 (47.4)	2.7 (3.7)	7.4 (5.8)	5.9 (5.2)	N/A	N/A	4.1 (4.8)	3251 (3,606)	2.2 (5.4)	N/A	< 0.1 (0.5)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments: ALL OIL VALUES SEEM FINE. WE WILL CONTINUE TO MONITOR THIS ENGINE WITH YOUR NEXT SAMPLE.

**** PREVIOUS 2** SAMPLE APPEARS NORMAL. Send next sample at normal interval. A.L.A.R.M. Meter: Normal Elevated High

Sample Date: 11/2/2016
Analysis Date: 11/14/2016
Sample Number: P10
Cylinder Type: STEEL
TSN/TSO: 780.5
Oil Hours: 31.4
Filter Hours: 31.4
Oil Added:
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
73.1 (46.7)	2.1 (3.6)	5.1 (6.0)	6.7 (5.5)	N/A	N/A	8.8 (4.7)	4202 (3,452)	4.9 (5.4)	N/A	< 0.1 (0.5)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments: ALL OIL VALUES SEEM FINE. WE WILL CONTINUE TO MONITOR THIS ENGINE WITH YOUR NEXT SAMPLE.

** PREVIOUS 3 SAMPLE APPEARS NORMAL. Send next sample at normal interval

A.L.A.R.M. Meter: Normal Elevated High

Sample Date: 3/2/2016
Analysis Date: 3/17/2016
Sample Number: P48
Cylinder Type: STEEL
TSN/TSO: 749.1
Oil Hours: 26.2
Filter Hours: 26.2
Oil Added:
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
64.2 (37.5)	3.9 (3.5)	7.3 (4.3)	8.5 (4.9)	N/A	N/A	10.4 (4.8)	4002 (3,187)	5.8 (5.5)	N/A	< 0.1 (0.4)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments: ALL OIL VALUES SEEM FINE. WE WILL CONTINUE TO MONITOR THIS ENGINE WITH YOUR NEXT SAMPLE.

** PREVIOUS 4 SAMPLE APPEARS NORMAL. Send next sample at normal interval

A.L.A.R.M. Meter: Normal Elevated High

Sample Date: 8/5/2015
Analysis Date: 8/26/2015
Sample Number: P03
Cylinder Type: STEEL
TSN/TSO: 722.9
Oil Hours: 29.1
Filter Hours: 29.1
Oil Added: 2
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
31.6 (39.3)	1.4 (3.4)	2.2 (4.7)	4.2 (5.0)	N/A	N/A	3.6 (4.3)	2200 (3,446)	3.3 (5.3)	N/A	0.3 (0.4)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments:

** PREVIOUS 5 SAMPLE APPEARS NORMAL. Send next sample at normal interval

A.L.A.R.M. Meter: Normal Elevated High

Sample Date: 5/15/2015
Analysis Date: 6/1/2015
Sample Number: P60
Cylinder Type: STEEL
TSN/TSO: 693.8
Oil Hours: 41.6
Filter Hours: 41.6
Oil Added:
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
67.3 (47.6)	1.6 (3.9)	10.1 (7.1)	9.8 (5.9)	N/A	N/A	4.3 (3.6)	5554 (4,764)	5.8 (5.4)	N/A	1.1 (0.5)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments:

** PREVIOUS 6 SAMPLE APPEARS NORMAL. Send next sample at normal interval.

A.L.A.R.M. Meter: Normal Elevated High

Sample Date: 4/14/2015
Analysis Date: 4/28/2015
Sample Number: P62
Cylinder Type: STEEL
TSN/TSO: 652.2
Oil Hours: 43.5
Filter Hours: 43.5
Oil Added:
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
31.3 (46.1)	0.9 (4.2)	2.7 (7.6)	2.9 (6.4)	N/A	N/A	2.6 (3.7)	3821 (4,961)	5.3 (5.8)	N/A	< 0.1 (0.5)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										

Type:											
Form:											

Comments:

** PREVIOUS 7 SAMPLE APPEARS NORMAL Send next sample at normal interval ALARM Meter Normal Elevated High

Sample Date: 2/23/2015
Analysis Date: 3/5/2015
Sample Number: P52
Cylinder Type: STEEL
TSN/TSO: 608.7
Oil Hours: 29.5
Filter Hours: 29.5
Oil Added:
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
38.5 (39.1)	2.6 (3.5)	3.2 (4.4)	5.3 (4.8)	N/A	N/A	5.1 (3.4)	3164 (3,454)	8.2 (5.6)	N/A	< 0.1 (0.5)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments:

** PREVIOUS 8 SAMPLE APPEARS NORMAL Send next sample at normal interval ALARM Meter Normal Elevated High

Sample Date: 8/21/2014
Analysis Date: 9/4/2014
Sample Number: P07
Cylinder Type: STEEL
TSN/TSO: 545.4
Oil Hours: 33.5
Filter Hours: 33.5
Oil Added:
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
42.5 (42.5)	1.7 (3.5)	2.7 (4.2)	2.5 (5.6)	N/A	N/A	6.9 (4.5)	3652 (3,744)	4.2 (5.6)	N/A	< 0.1 (0.5)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments:

** PREVIOUS 9 SAMPLE APPEARS NORMAL Send next sample at normal interval ALARM Meter Normal Elevated High

Sample Date: 5/12/2014
Analysis Date: 5/21/2014
Sample Number: P82
Cylinder Type: STEEL
TSN/TSO: 511.9
Oil Hours: 32.6
Filter Hours: 32.6
Oil Added: 2
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
35.6 (35.7)	2.9 (3.1)	2.9 (3.2)	7 (5.1)	N/A	N/A	6.9 (4.5)	4330 (3,491)	3.3 (5.5)	N/A	< 0.1 (0.5)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments:

** PREVIOUS 10 SAMPLE APPEARS NORMAL Send next sample at normal interval ALARM Meter Normal Elevated High

Sample Date: 9/4/2013
Analysis Date: 9/19/2013
Sample Number: P75
Cylinder Type: STEEL
TSN/TSO: 479.3
Oil Hours: 33.5
Filter Hours: 33.5
Oil Added: 2
Filter Wt. (mgs):

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
37.3 (40.9)	2 (3.4)	1.9 (3.0)	3.6 (3.7)	N/A	N/A	5.7 (3.7)	3972 (3,318)	3.7 (5.1)	N/A	< 0.1 (0.5)	N/A

*** FILTER ANALYSIS RESULTS ***

Flashpoint(deg. F): H20 (ppm): Total Acid No.:	Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
	Amount:										
	Type:										
	Form:										

Comments:

** PREVIOUS 11 SAMPLE APPEARS NORMAL Send next sample at normal interval A L A R M Meter Normal Elevated High

Sample Date: 6/17/2013
Analysis Date: 6/18/2013
Sample Number: P68
Cylinder Type: STEEL
TSN/TSO: 445 8
Oil Hours: 36 5
Filter Hours: 36 5
Oil Added: 2
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
41.9 (36 6)	2.4 (3.7)	7.3 (5.4)	6.3 (4 9)	N/A	N/A	4 6 (3 3)	5693 (4.054)	3.7 (5.5)	N/A	< 0.1 (0.5)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments:

** PREVIOUS 12 SAMPLE APPEARS NORMAL Send next sample at normal interval A L A R M Meter Normal Elevated High

Sample Date: 1/11/2013
Analysis Date: 3/22/2013
Sample Number: P45
Cylinder Type: STEEL
TSN/TSO: 1148 4
Oil Hours: 36 3
Filter Hours: 36 3
Oil Added: 2
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
40.4 (43 6)	1.1 (3.4)	2.5 (5.7)	5.2 (4 7)	N/A	N/A	3.7 (4 3)	6983 (3.462)	5 (4 3)	N/A	< 0.1 (0 4)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments:

** PREVIOUS 13 SAMPLE APPEARS NORMAL Send next sample at normal interval A L A R M Meter Normal Elevated High

Sample Date: 8/28/2012
Analysis Date: 9/6/2012
Sample Number: P88
Cylinder Type: STEEL
TSN/TSO: 1112 1
Oil Hours: 34 9
Filter Hours: 34 9
Oil Added: 2
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
43.8 (44 5)	2.7 (3 7)	2.5 (5 9)	4 2 (5 5)	N/A	N/A	5.2 (4 4)	4540 (3.274)	3.2 (4 4)	N/A	< 0.1 (0 5)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments:

** PREVIOUS 14 SAMPLE APPEARS NORMAL Send next sample at normal interval A L A R M Meter Normal Elevated High

Sample Date: 11/1/2011
Analysis Date: 12/21/2011
Sample Number: P246
Cylinder Type: STEEL

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
				N/A	N/A				N/A		N/A

TSN/TSO: 267.8
Oil Hours: 30
Filter Hours: 30
Oil Added: 2
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

44.2 (36.0)	4.6 (5.3)	1.3 (3.6)	5.9 (5.7)			4.4 (3.9)	4036 (3,218)	6.9 (5.4)		< 0.1 (0.6)	

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments:

** PREVIOUS 15 SAMPLE APPEARS NORMAL Send next sample at normal interval.

A.L.A.R.M. Meter: Normal Elevated High

Sample Date: 8/30/2011
Analysis Date: 9/20/2011
Sample Number: P63
Cylinder Type: STEEL
TSN/TSO: 236.8
Oil Hours: 33.7
Filter Hours: 33.7
Oil Added: 2
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
57.2 (38.3)	4.8 (6.6)	2.1 (4.4)	6.9 (7.3)	N/A	N/A	7.5 (3.9)	4914 (3,590)	7 (6.1)	N/A	< 0.1 (0.6)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments:

** PREVIOUS 16 SAMPLE APPEARS NORMAL Send next sample at normal interval

A.L.A.R.M. Meter: Normal Elevated High

Sample Date: 7/7/2011
Analysis Date: 7/25/2011
Sample Number: P16
Cylinder Type: STEEL
TSN/TSO: 203.1
Oil Hours: 37.3
Filter Hours: 37.7
Oil Added: 3
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
29.2 (37.6)	5.2 (8.0)	1.4 (3.7)	5.8 (7.6)	N/A	N/A	5.1 (4.1)	3940 (4,347)	7.3 (6.7)	N/A	< 0.1 (0.8)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments:

** PREVIOUS 17 SAMPLE APPEARS NORMAL Send next sample at normal interval

A.L.A.R.M. Meter: Normal Elevated High

Sample Date: 3/15/2011
Analysis Date: 3/24/2011
Sample Number: P25
Cylinder Type: STEEL
TSN/TSO: 165.4
Oil Hours: 33.5
Filter Hours: 33.5
Oil Added: 3
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
40.9 (37.6)	7.2 (8.3)	3.1 (3.4)	5.6 (7.7)	N/A	N/A	4.9 (4.6)	4714 (3,723)	9.7 (7.6)	N/A	< 0.1 (0.9)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments: NOTE NICE SILICON DECREASE.

** PREVIOUS 18 ** SEE LAB COMMENTS **

A.L.A.R.M. Meter: Normal Elevated High

Sample Date: 9/23/2010
Analysis Date: 10/8/2010
Sample Number: P09
Cylinder Type: STEEL
TSN/TSO: 131.9
Oil Hours: 35
Filter Hours: 35
Oil Added: 1
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
46 (37.5)	11 (11.4)	2 (2.8)	8 (7.7)	N/A	N/A	7 (4.8)	4790 (3,708)	23 (8.5)	N/A	< 0.1 (1.0)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments: NOTE A LITTLE DECREASE IN SILICON. WE WILL CONTINUE TO MONITOR WEAR METAL TREND ON YOUR NEXT SAMPLE.

** PREVIOUS 19 ** SEE LAB COMMENTS ** A L A R M Meter Normal Elevated High

Sample Date: 7/30/2010
Analysis Date: 8/18/2010
Sample Number: P50
Cylinder Type: STEEL
TSN/TSO: 106.4
Oil Hours: 34.2
Filter Hours: 34.2
Oil Added: 3
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
46.1 (38.6)	11.6 (14.3)	< 0.1 (2.8)	9 (8.2)	N/A	N/A	5.4 (5.1)	4242 (3,499)	27.7 (11.2)	N/A	< 0.1 (1.3)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments: NOTE INCREASE IN SILICON. SILICON IS DIRT CONTAMINATION. THIS MAY BE CAUSED BY A DIRTY AIR FILTER, VACUUM LEAK, FLYING CONDITIONS, THE SAMPLING PROCESS, ETC. WE WILL CONTINUE TO MONITOR WEAR METAL TREND ON YOUR NEXT SAMPLE.

** PREVIOUS 20 SAMPLE APPEARS NORMAL. Send next sample at normal interval A L A R M Meter Normal Elevated High

Sample Date: 1/12/2010
Analysis Date: 1/21/2010
Sample Number: P25
Cylinder Type: STEEL
TSN/TSO: Unknown
Oil Hours: 24.6
Filter Hours: 24.6
Oil Added: 2
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
36.6 (N/A)	12.9 (N/A)	2.3 (N/A)	9.2 (N/A)	N/A	N/A	5.6 (N/A)	3391 (N/A)	12.1 (N/A)	N/A	0.7 (N/A)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments: NOTE: STARTER ADAPTER REPLACED 15 HOURS AGO.

** PREVIOUS 21 WE WILL MONITOR WEAR METAL TREND. A L A R M Meter Normal Elevated High

Sample Date: 9/4/2009
Analysis Date: 9/21/2009
Sample Number: P27
Cylinder Type: STEEL
TSN/TSO: 47.6
Oil Hours: 20
Filter Hours: 20
Oil Added: 1
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magn.	Alum.	Lead	Silicon	Titanium	Tin	Moly.
23.8 (34.4)	14.8 (17.0)	0.7 (1.9)	3.1 (6.4)	N/A	N/A	1.4 (4.2)	1889 (2,449)	8.3 (11.2)	N/A	0.4 (1.3)	N/A

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments: NOTE FIRST SAMPLE SEEN. ALL OIL WEAR METAL VALUES SEEM FINE. WE WILL MONITOR YOUR NEXT SAMPLE TO ESTABLISH A BASELINE FOR WEAR METAL TREND.