

ENGINE
EQUIP NUM: 202
SERIAL NUMBER: 9EJ00431
E330-51232-0098

LABEL# 0098

SAMPLE SHIP TIME (days) : 35

WAYNE COUNTY - DIST 2

RECEIVED DATE: 20-Aug-21

CAT 160HNA

No Action Required
Interp By: Mary E Churchill
Interpreted On: 23-Aug-21

NORMAL WEAR METAL READINGS NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE CONTINUE SAMPLING AT THE NORMAL INTERVAL

SAMPLE INFORMATION

	16-Jul-21	04-Jan-21	11-Jun-20	30-Nov-17
Sampled Date	16-Jul-21	04-Jan-21	11-Jun-20	30-Nov-17
Sample Id	E330-51232-0098	E330-51007-0092	E330-50167-0092	E330-47340-0182
Lab Date	20-Aug-21	07-Jan-21	15-Jun-20	06-Dec-17
Meter [Hr]	7145	6896	6626	6427
Comp Meter [Hr]				6427
Meter On Fluid	265	250	250	250
Fluid Brand	CAT	CAT	CAT	CAT
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type				
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Kidney Loop	U	U	U	U

PREVIOUS SAMPLE

NORMAL READINGS NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE CONTINUE SAMPLING AT THE NORMAL INTERVAL INTERPRETATION BY MARY C - LAB MANAGER

For additional sample history, go to: my.cat.com

CONDITION / CONTAMINATION

	16-Jul-21	04-Jan-21	11-Jun-20	30-Nov-17
VISCOSITY (CENTISTOKES) ASTM D445				
V100 Viscosity at 100 C	13.6	14.2	14.8	15.4

INFRARED (UFM) ASTM E2412

	16-Jul-21	04-Jan-21	11-Jun-20	30-Nov-17
ST Soot	30	29	31	31
OXI Oxidation	24	24	22	17
SUL Sulfur Products	27	27	26	22
NIT Nitration	11	10	11	9

WEAR LEVELS / ADDITIVES

	16-Jul-21	04-Jan-21	11-Jun-20	30-Nov-17
ELEMENTAL ANALYSIS (PPM) ASTM D5185 (OIL) / ASTM D6130 (COOLANT)				
Cu Copper	1	2	2	2
Fe Iron	21	19	18	29
Cr Chromium	0	0	0	1
Al Aluminum	1	1	2	2
Pb Lead	2	2	2	3
Sn Tin	1	0	0	0
Si Silicon	2	3	2	3
Na Sodium	8	8	18	14
K Potassium	0	0	1	1
Mo Molybdenum	43	40	37	34
Ni Nickel	0	0	0	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	1	0
V Vanadium	0	0	0	0
Cd Cadmium	0	0	0	0
Ca Calcium	1691	1637	1602	2064
P Phosphorus	955	947	987	1195
Zn Zinc	1196	1166	1268	1440
Mg Magnesium	533	566	621	708
Ba Barium	0	0	0	0
B Boron	34	34	23	0

WATER

	16-Jul-21	04-Jan-21	11-Jun-20	30-Nov-17
W Water	N	N	N	N

ANTIFREEZE

	16-Jul-21	04-Jan-21	11-Jun-20	30-Nov-17
A Antifreeze	N	N	N	N

FUEL

	16-Jul-21	04-Jan-21	11-Jun-20	30-Nov-17
F Fuel	N	N	N	N

ENGINE
E330-51155-0079

LABEL# 0079

SHOP JOB NUM

SAMPLE SHIP TIME (days) : 3

WAYNE COUNTY - DIST 3

RENTAL

~~EQUIP NUM: 205~~

CAT 160HNA


No Action Required

SERIAL NUMBER: 9EJ00694

Interp By: Mary E Churchill
Interpreted On: 06-Jun-21

NORMAL WEAR METAL READINGS NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE CONTINUE SAMPLING AT THE NORMAL INTERVAL

SAMPLE INFORMATION

	01-Jun-21	28-Dec-20	03-Jan-19	12-Oct-15
Sampled Date	01-Jun-21	28-Dec-20	03-Jan-19	12-Oct-15
Sample Id	E330-51155-0079	E330-51005-0081	E330-49009-0132	E330-45321-0101
Lab Date	04-Jun-21	05-Jan-21	09-Jan-19	17-Nov-15
Meter [Hr]	5925	5678	5218	4600
Comp Meter [Hr]			5218	
Meter On Fluid	247	250	200	200
Fluid Brand	CAT	CAT	CAT	CAT
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type				
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Kidney Loop	U	U	U	U

PREVIOUS SAMPLE

NORMAL READINGS SOME VISCOSITY LOSS OBSERVED. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE AT THE NEXT SERVICE INTERVAL. INTERPRETATION BY MARY C. - LAB MANAGER

For additional sample history, go to: my.cat.com

CONDITION / CONTAMINATION

	01-Jun-21	28-Dec-20	03-Jan-19	12-Oct-15
VISCOSITY (CENTISTOKES) ASTM D445				
V100 Viscosity at 100 C	12.8	12.8	13.3	14.4

INFRARED (IFM) ASTM E2412

	01-Jun-21	28-Dec-20	03-Jan-19	12-Oct-15
ST Soot	2	2	3	2
OXI Oxidation	22	21	15	15
SUL Sulfur Products	24	24	20	18
NIT Nitration	8	8	8	7

WEAR LEVELS / ADDITIVES

	01-Jun-21	28-Dec-20	03-Jan-19	12-Oct-15
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ELEMENTAL ANALYSIS (PPM) ASTM D5185 (OIL) / ASTM D6130 (COOLANT)

	01-Jun-21	28-Dec-20	03-Jan-19	12-Oct-15
Cu Copper	1	0	1	1
Fe Iron	11	9	11	16
Cr Chromium	0	0	0	0
Al Aluminum	2	1	1	1
Pb Lead	0	0	1	1
Sn Tin	0	0	0	0
Si Silicon	3	1	2	1
Na Sodium	5	6	12	2
K Potassium	0	0	2	2
Mo Molybdenum	42	38	40	4
Ni Nickel	0	0		
Ag Silver	0	0	0	0
Ti Titanium	0	0		
V Vanadium	0	0		
Cd Cadmium	0	0		
Ca Calcium	1654	1613	1730	2479
P Phosphorus	959	927	946	1142
Zn Zinc	1161	1110	1205	1422
Mg Magnesium	524	512	616	337
Ba Barium	0	0		
B Boron	43	44		

WATER

	01-Jun-21	28-Dec-20	03-Jan-19	12-Oct-15
W Water	N	N	N	N

ANTIFREEZE

	01-Jun-21	28-Dec-20	03-Jan-19	12-Oct-15
A Antifreeze	N	N	N	N

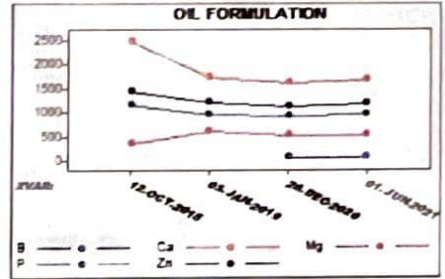
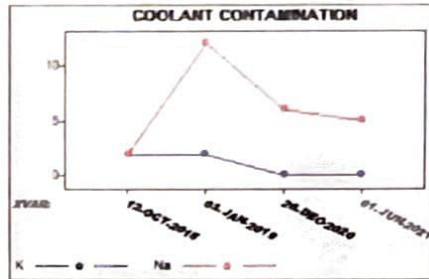
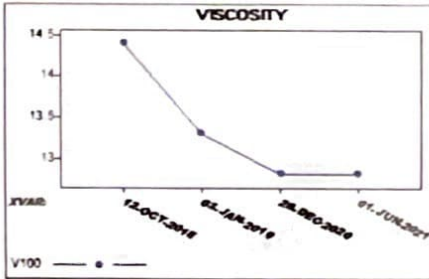
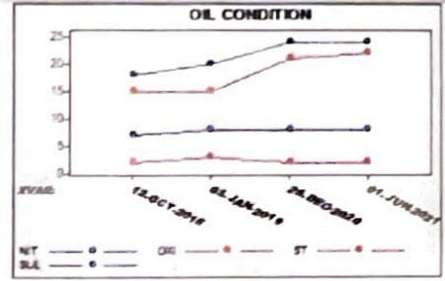
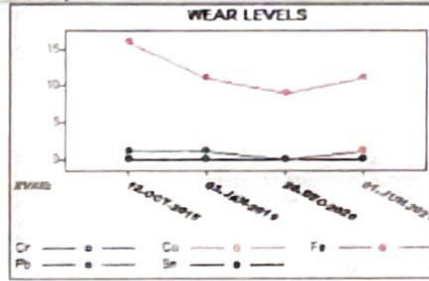
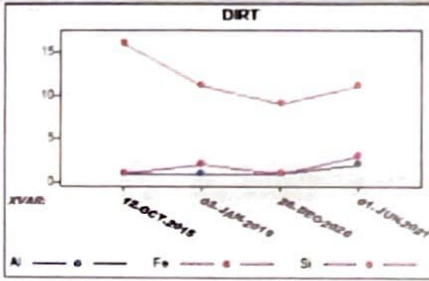
FUEL

	01-Jun-21	28-Dec-20	03-Jan-19	12-Oct-15
F Fuel	N	N	N	N

FUEL CONTENT (%) ASTM D3624

	01-Jun-21	28-Dec-20	03-Jan-19	12-Oct-15
PFC Percent Fuel				4.15

1997
160 H



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>

JIM RABE
 WAYNE COUNTY - DIST 3
 85367 566 AVE
 WINDSIDE, NE 68790
 USA