

**HYDRAULIC SYSTEM**

**N030-52195-0438**

LABEL#: 200994501


SAMPLE SHIP TIME (days) : 9

**GALENA CONTRACTORS LTD**

RECEIVED DATE: 14-Jul-22

**EQUIP NUM: EX127**

**CAT 325DFM\_CAT**

 **No Action Required**

**SERIAL NUMBER: C7K01499**

**Interp By: Greg Eyre**  
**Interpreted On: 15-Jul-22**

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. ISO CODE IS SLIGHTLY ELEVATED. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

**SAMPLE INFORMATION**

	05-Jul-22	12-Mar-20	31-Oct-17	30-Nov-16
Sampled Date	05-Jul-22	12-Mar-20	31-Oct-17	30-Nov-16
Sample Id	N030-52195-0438	N030-50079-0371	N030-47311-0598	N030-46343-0275
Lab Date	14-Jul-22	19-Mar-20	07-Nov-17	08-Dec-16
Meter [Hr]	12034	7878	3017	1010
Comp Meter [Hr]	12034	7878	3017	
Meter On Fluid	2136	7878	3017	1010
Fluid Brand	PETRO-CAN	CAT	CAT	CAT
Fluid Weight	32-ISO	10	10	10W
Fluid Type		HYD	HYD	HYD
Fluid Change	N	N	N	N
Filter Change	Y	Y	Y	Y
Kidney Loop	U	U	U	

**PREVIOUS SAMPLE**

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

**CONDITION / CONTAMINATION**

	05-Jul-22	12-Mar-20	31-Oct-17	30-Nov-16
<b>VISCOSITY (Centistokes)</b>				
V100 Viscosity at 100 C	5.500	5.7	6.8	6.4
<b>VISCOSITY (Centistokes)</b>				
V40 Viscosity at 40 C	31.40	31.6	36.8	37.5

**WEAR LEVELS / ADDITIVES**

	05-Jul-22	12-Mar-20	31-Oct-17	30-Nov-16
<b>ELEMENTAL ANALYSIS (ppm)</b>				
Na Sodium	0	0	1	1
K Potassium	0	0	1	1
Si Silicon	1	1	1	0
Al Aluminum	0	0	1	0
Fe Iron	5	11	12	7
Cr Chromium	0	1	0	0
Pb Lead	0	1	0	1
Cu Copper	0	2	4	4
Sn Tin	0	0	0	<0
Ni Nickel	0	0	0	0
Ag Silver	0	0	0	<0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	<0
Zn Zinc	363	417	624	698
Ca Calcium	25	22	104	120
Mg Magnesium	0	1	2	1
Ba Barium	0	0	1	1
B Boron	0	0	0	0
Mo Molybdenum	0	0	1	<0
P Phosphorus	287	327	467	520

**VISCOSITY INDEX**

VI Viscosity Index	112	122	145
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**INFRARED (UFM)**

ST Soot	0	0	0
OXI Oxidation	3	4	4
SUL Sulfur Products	12	13	12
NIT Nitration	2	2	2

**ANTIFREEZE**

A Antifreeze	N	N	N	N
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**FUEL**

F Fuel			N	
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**WATER**

W Water	N	N	N	N
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**CLEANLINESS**

	05-Jul-22	12-Mar-20	31-Oct-17	30-Nov-16
<b>PARTICLE COUNT</b>				
ISO ISO Code Rating	20/19/14	19/16/12	19/17/15	21/19/16
4µ 4µ	8399	3099	3962	17111
6µ 6µ	2890	340	1034	4514
10µ 10µ	814	82	517	1173
14µ 14µ	98	33	212	446
18µ 18µ	34	19	98	196
21µ 21µ	19	13	73	109

HYDRAULIC SYSTEM

SERIAL NUMBER: C7K01499

EQUIP NUM: EX127

CAT 325DFM\_CAT

N030-52195-0438

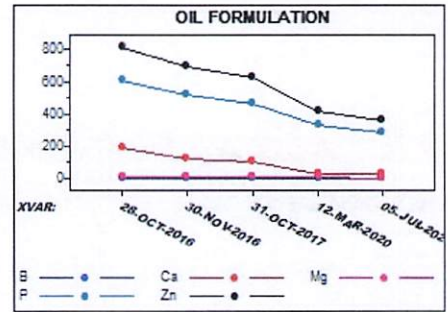
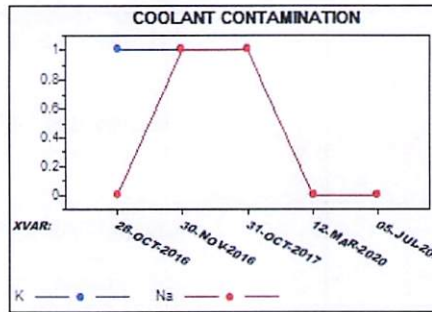
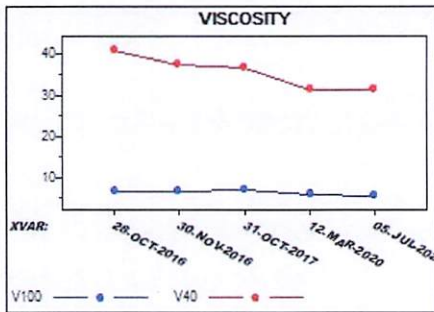
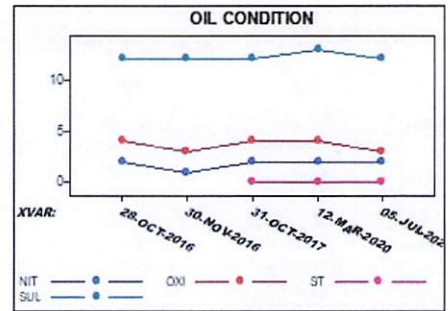
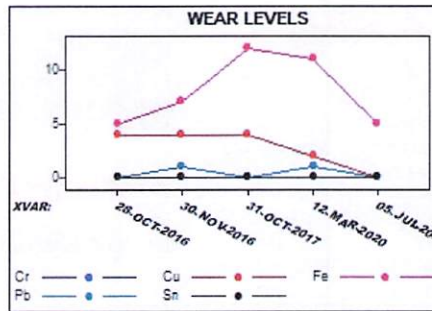
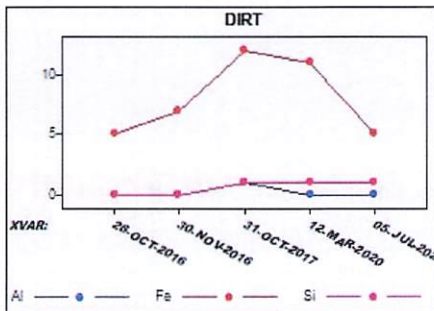


No Action Required

SAMPLE INFORMATION

38μ	38μ	4	5	7	12
50μ	50μ	3	3	2	4

Sampled Date	05-Jul-22	12-Mar-20	31-Oct-17	30-Nov-16
Sample Id	N030-52195-0438	N030-50079-0371	N030-47311-0598	N030-46343-0275
Lab Date	14-Jul-22	19-Mar-20	07-Nov-17	08-Dec-16
Meter [Hr]	12034	7878	3017	1010
Comp Meter [Hr]	12034	7878	3017	
Meter On Fluid	2136	7878	3017	1010
Fluid Brand	PETRO-CAN	CAT	CAT	CAT
Fluid Weight	32-ISO	10	10	10W
Fluid Type		HYD	HYD	HYD
Fluid Change	N	N	N	N
Filter Change	Y	Y	Y	Y
Kidney Loop	U	U	U	



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>. Access our online platform: <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or oilsupport@finning.com.

**ENGINE**

**N030-52180-0259**

LABEL#: 200994660

SAMPLE SHIP TIME (days) : 6

**GALENA CONTRACTORS**

**LTD**

RECEIVED DATE: 29-Jun-22

**EQUIP NUM: EX127**

**CAT 325DFM\_CAT - CAT C7**

 **No Action Required**

**SERIAL NUMBER: C7K01499**

**Interp By: Fluid Interpreter**

**Interpreted On: 30-Jun-22**

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

**SAMPLE INFORMATION**

	23-Jun-22	11-May-22	23-Feb-22	06-Jan-22
Sampled Date	23-Jun-22	11-May-22	23-Feb-22	06-Jan-22
Sample Id	N030-52180-0259	N030-52139-0134	N030-52063-0847	N030-52014-0244
Lab Date	29-Jun-22	19-May-22	04-Mar-22	14-Jan-22
Meter [Hr]	11966	11720	11473	11206
Comp Meter [Hr]	11966	11720	11473	11206
Meter On Fluid	246	247	267	272
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	15W-40	10W-30	10W-30
Fluid Type	DURON SHP	DURON SHP	DURON SHP	DURON SHP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Kidney Loop	U	U	U	U

**PREVIOUS SAMPLE**

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.
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**CONDITION / CONTAMINATION**

	23-Jun-22	11-May-22	23-Feb-22	06-Jan-22
<b>VISCOSITY (Centistokes)</b>				
V100 Viscosity at 100 C	12.00	11.30	10.00	10.3
<b>VISCOSITY (Centistokes)</b>				
V40 Viscosity at 40 C	85.10	79.80	66.80	70.0

**WEAR LEVELS / ADDITIVES**

	23-Jun-22	11-May-22	23-Feb-22	06-Jan-22
<b>ELEMENTAL ANALYSIS (ppm)</b>				
Na Sodium	0	1	1	1
K Potassium	0	0	0	0
Si Silicon	3	5	4	5
Al Aluminum	0	1	1	1
Fe Iron	9	11	13	16
Cr Chromium	1	1	1	1
Pb Lead	0	0	0	0
Cu Copper	0	0	0	0
Sn Tin	0	0	0	0
Ni Nickel	0	1	0	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	1229	1257	1312	1246
Ca Calcium	1078	1081	1131	1099
Mg Magnesium	903	1028	1031	969
Ba Barium	0	0	0	0
B Boron	1	1	1	1
Mo Molybdenum	58	61	63	62
P Phosphorus	1032	1061	1071	1070

**VISCOSITY INDEX**

VI Viscosity Index	135	132	134	133
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**INFRARED (UFM)**

	23-Jun-22	11-May-22	23-Feb-22	06-Jan-22
ST Soot	14	13	13	12
OXI Oxidation	15	14	14	14
SUL Sulfur Products	20	20	19	19
NIT Nitration	7	7	7	6

**ANTIFREEZE**

A Antifreeze	N	N	N	N
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**FUEL**

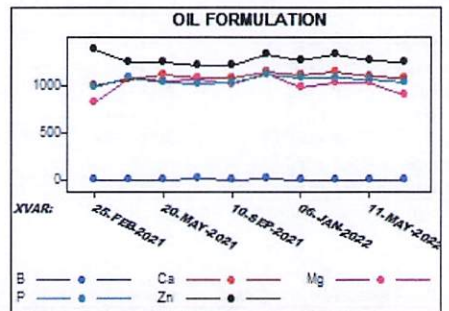
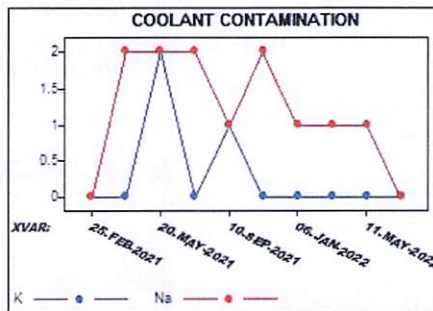
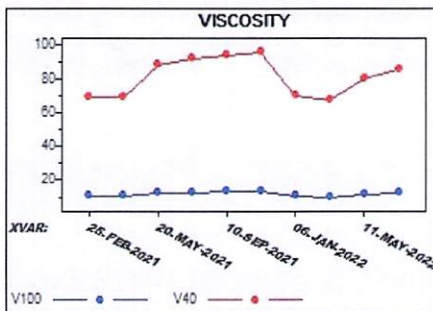
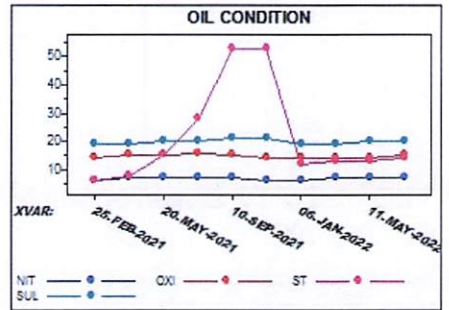
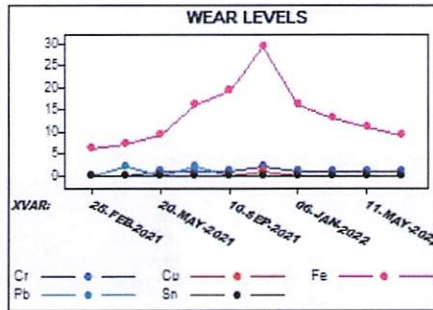
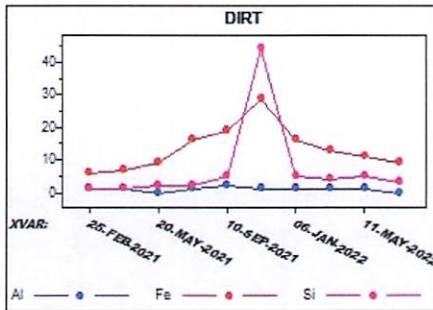
F Fuel	N	N	N	N
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**FUEL CONTENT (%)**

PFc Percent Fuel	1.90	1.70
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**WATER**

W Water	N	N	N	N
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**Report Comment**

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJUVrs>. Access our online platform: <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or [oilsupport@finning.com](mailto:oilsupport@finning.com).

ENGINE

EQUIP NUM: EX127

SERIAL NUMBER: C7K01499

N030-52139-0134

LABEL#: 200911962

SAMPLE SHIP TIME (days) : 8

GALENA CONTRACTORS

LTD

RECEIVED DATE: 19-May-22

CAT 325DFM\_CAT - CAT C7

 No Action Required

Interp By: Fluid Interpreter

Interpreted On: 24-May-22

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

**SAMPLE INFORMATION**

	11-May-22	23-Feb-22	06-Jan-22	03-Nov-21
Sampled Date	11-May-22	23-Feb-22	06-Jan-22	03-Nov-21
Sample Id	N030-52139-0134	N030-52063-0847	N030-52014-0244	N030-51316-0507
Lab Date	19-May-22	04-Mar-22	14-Jan-22	12-Nov-21
Meter [Hr]	11720	11473	11206	10934
Comp Meter [Hr]	11720	11473	11206	10934
Meter On Fluid	247	267	272	278
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	10W-30	10W-30	15W-40
Fluid Type	DURON SHP	DURON SHP	DURON SHP	DURON SHP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Kidney Loop	U	U	U	U

**PREVIOUS SAMPLE**

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.
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**CONDITION / CONTAMINATION**

	11-May-22	23-Feb-22	06-Jan-22	03-Nov-21
<b>VISCOSITY (Centistokes)</b>				
V100 Viscosity at 100 C	11.30	10.00	10.3	13.00
<b>VISCOSITY (Centistokes)</b>				
V40 Viscosity at 40 C	79.80	66.80	70.0	94.70

**WEAR LEVELS / ADDITIVES**

	11-May-22	23-Feb-22	06-Jan-22	03-Nov-21
<b>ELEMENTAL ANALYSIS (ppm)</b>				
Na Sodium	1	1	1	2
K Potassium	0	0	0	0
Si Silicon	5	4	5	44
Al Aluminum	1	1	1	1
Fe Iron	11	13	16	29
Cr Chromium	1	1	1	2
Pb Lead	0	0	0	0
Cu Copper	0	0	0	1
Sn Tin	0	0	0	0
Ni Nickel	1	0	0	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	1257	1312	1246	1314
Ca Calcium	1081	1131	1099	1142
Mg Magnesium	1028	1031	969	1129
Ba Barium	0	0	0	0
B Boron	1	1	1	3
Mo Molybdenum	61	63	62	59
P Phosphorus	1061	1071	1070	1104

**VISCOSITY INDEX**

VI Viscosity Index	132	134	133	135
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**INFRARED (UFM)**

ST Soot	13	13	12	53
OXI Oxidation	14	14	14	14
SUL Sulfur Products	20	19	19	21
NIT Nitration	7	7	6	6

**ANTIFREEZE**

A Antifreeze	N	N	N	N
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**FUEL**

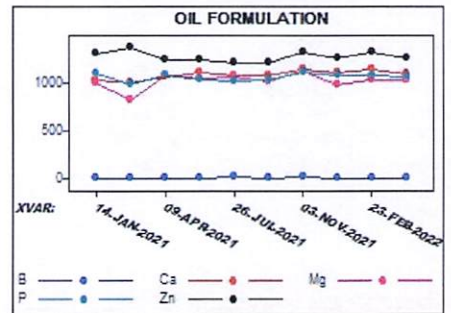
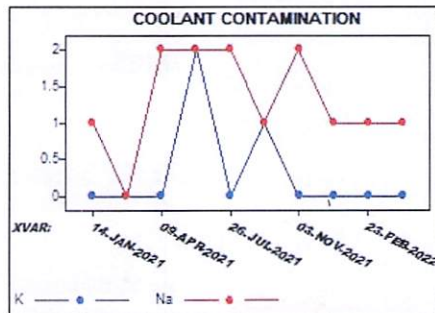
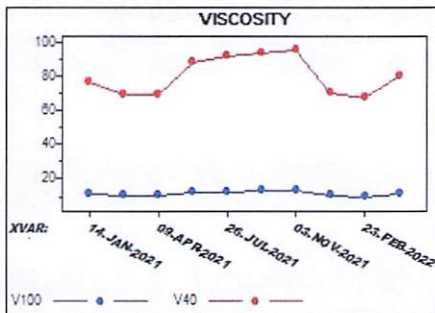
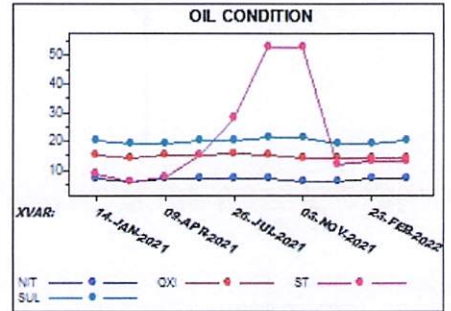
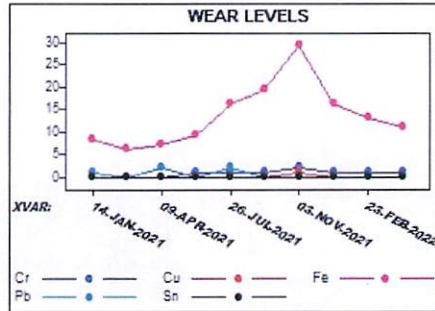
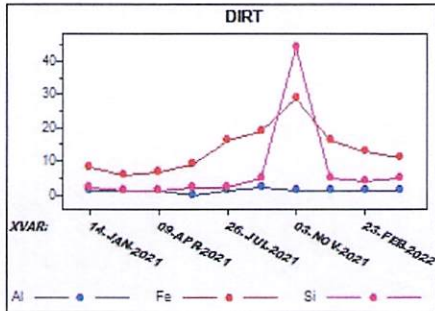
F Fuel	N	N	N	N
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**FUEL CONTENT (%)**

PFC Percent Fuel	1.70
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**WATER**

W Water	N	N	N	N
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**Report Comment**

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**ENGINE**

N030-52063-0847  
 LABEL#: 200854666  
 SAMPLE SHIP TIME (days) : 9  
**GALENA CONTRACTORS**  
 LTD  
 RECEIVED DATE: 04-Mar-22

**EQUIP NUM: EX127**  
**CAT 325DFM\_CAT - CAT C7**  
 **No Action Required**

**SERIAL NUMBER: C7K01499**

**Interp By: Fluid Interpreter**  
**Interpreted On: 07-Mar-22**

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

**SAMPLE INFORMATION**

	23-Feb-22	06-Jan-22	03-Nov-21	10-Sep-21
Sampled Date	23-Feb-22	06-Jan-22	03-Nov-21	10-Sep-21
Sample Id	N030-52063-0847	N030-52014-0244	N030-51316-0507	N030-51260-0588
Lab Date	04-Mar-22	14-Jan-22	12-Nov-21	17-Sep-21
Meter [Hr]	11473	11206	10934	10656
Comp Meter [Hr]	11473	11206	10934	10656
Meter On Fluid	267	272	278	253
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-30	10W-30	15W-40	15W-40
Fluid Type	DURON SHP	DURON SHP	DURON SHP	DURON SHP
Oil Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Kidney Loop	U	U	U	U

**PREVIOUS SAMPLE**

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

**CONDITION / CONTAMINATION**

	23-Feb-22	06-Jan-22	03-Nov-21	10-Sep-21
<b>VISCOSITY (Centistokes)</b>				
V100 Viscosity at 100 C	10.00	10.3	13.00	13.1
<b>VISCOSITY (Centistokes)</b>				
V40 Viscosity at 40 C	66.80	70.0	94.70	93.5

**WEAR LEVELS / ADDITIVES**

	23-Feb-22	06-Jan-22	03-Nov-21	10-Sep-21
<b>ELEMENTAL ANALYSIS (ppm)</b>				
Na Sodium	1	1	2	1
K Potassium	0	0	0	1
Si Silicon	4	5	44	5
Al Aluminum	1	1	1	2
Fe Iron	13	16	29	19
Cr Chromium	1	1	2	1
Pb Lead	0	0	0	0
Cu Copper	0	0	1	0
Sn Tin	0	0	0	0
Ni Nickel	0	0	0	1
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	1312	1246	1314	1205
Ca Calcium	1131	1099	1142	1077
Mg Magnesium	1031	969	1129	1004
Ba Barium	0	0	0	0
B Boron	1	1	3	1
Mo Molybdenum	63	62	59	58
P Phosphorus	1071	1070	1104	1028

**VISCOSITY INDEX**

	23-Feb-22	06-Jan-22	03-Nov-21	10-Sep-21
VI Viscosity Index	134	133	135	139

**INFRARED (UFM)**

	23-Feb-22	06-Jan-22	03-Nov-21	10-Sep-21
ST Soot	13	12	53	53
OXI Oxidation	14	14	14	15
SUL Sulfur Products	19	19	21	21
NIT Nitration	7	6	6	7

**ANTIFREEZE**

	23-Feb-22	06-Jan-22	03-Nov-21	10-Sep-21
A Antifreeze	N	N	N	N

**FUEL**

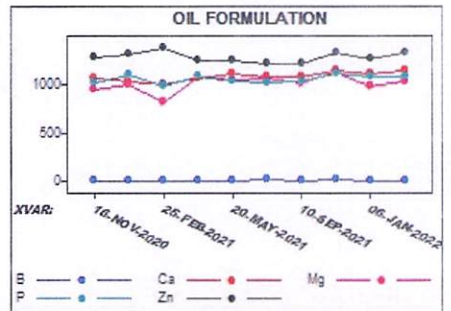
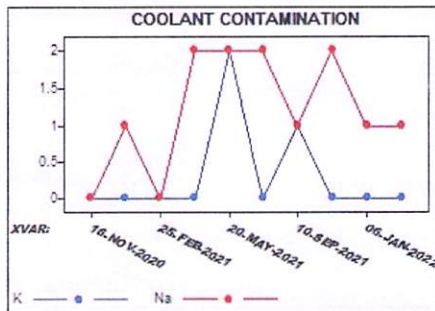
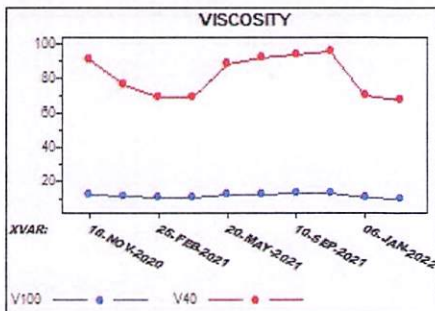
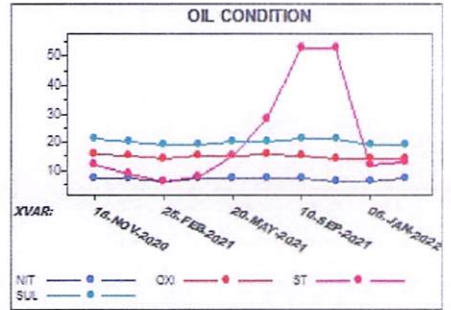
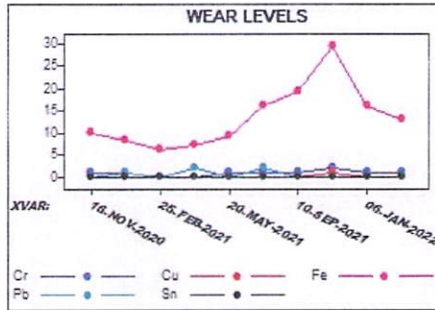
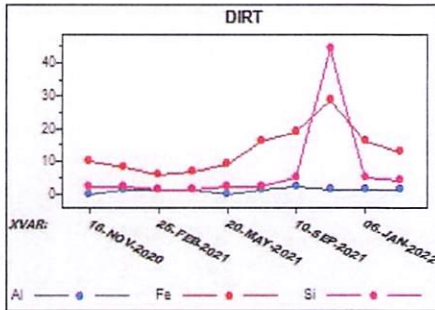
	23-Feb-22	06-Jan-22	03-Nov-21	10-Sep-21
F Fuel	N	N	N	N

**FUEL CONTENT (%)**

	23-Feb-22	06-Jan-22	03-Nov-21	10-Sep-21
Pfc Percent Fuel				0.84

**WATER**

	23-Feb-22	06-Jan-22	03-Nov-21	10-Sep-21
W Water	N	N	N	N



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>. Access our online platform: <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or oilsupport@finning.com.

ENGINE

EQUIP NUM: EX127

SERIAL NUMBER: C7K01499

N030-52014-0244

LABEL#: 200762496

SAMPLE SHIP TIME (days) : 8

GALENA CONTRACTORS

LTD

RECEIVED DATE: 14-Jan-22

CAT 325DFM\_CAT - CAT C7

 No Action Required

Interp By: Gregory Scribner

Interpreted On: 17-Jan-22

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

**SAMPLE INFORMATION**

	06-Jan-22	03-Nov-21	10-Sep-21	26-Jul-21
Sample Id	N030-52014-0244	N030-51316-0507	N030-51260-0588	N030-51216-0394
Lab Date	14-Jan-22	12-Nov-21	17-Sep-21	04-Aug-21
Meter [Hr]	11206	10934	10656	10403
Comp Meter [Hr]	11206	10934	10656	10403
Meter On Fluid	272	278	253	249
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-30	15W-40	15W-40	15W-40
Fluid Type	DURON SHP	DURON SHP	DURON SHP	DURON SHP
Oil Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Kidney Loop	U	U	U	U

**PREVIOUS SAMPLE**

ELEVATED SILICON APPEARS TO BE RESIDUAL FROM A COMPOUND USED IN ASSEMBLY OR REPAIRS. ELEVATED IRON MAY BE SOURCED TO BEARINGS; GEARS; SPLINES; SHAFTS; HOUSING; NON-MECHANICAL ORIGIN. OTHER READINGS APPEAR TO BE NORMAL. CHANGE OIL. RESAMPLE TO MONITOR.

**CONDITION / CONTAMINATION**

	06-Jan-22	03-Nov-21	10-Sep-21	26-Jul-21
<b>VISCOSITY (Centistokes)</b>				
V100 Viscosity at 100 C	10.3	13.00	13.1	12.7
<b>VISCOSITY (Centistokes)</b>				
V40 Viscosity at 40 C	70.0	94.70	93.5	91.3

**WEAR LEVELS / ADDITIVES**

	06-Jan-22	03-Nov-21	10-Sep-21	26-Jul-21
<b>ELEMENTAL ANALYSIS (ppm)</b>				
Na Sodium	1	2	1	2
K Potassium	0	0	1	0
Si Silicon	5	44	5	2
Al Aluminum	1	1	2	1
Fe Iron	16	29	19	16
Cr Chromium	1	2	1	1
Pb Lead	0	0	0	2
Cu Copper	0	1	0	0
Sn Tin	0	0	0	0
Ni Nickel	0	0	1	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	1246	1314	1205	1204
Ca Calcium	1099	1142	1077	1075
Mg Magnesium	969	1129	1004	1061
Ba Barium	0	0	0	0
B Boron	1	3	1	3
Mo Molybdenum	62	59	58	59
P Phosphorus	1070	1104	1028	1002

**VISCOSITY INDEX**

	06-Jan-22	03-Nov-21	10-Sep-21	26-Jul-21
VI Viscosity Index	133	135	139	136

**INFRARED (UFM)**

	06-Jan-22	03-Nov-21	10-Sep-21	26-Jul-21
ST Soot	12	53	53	28
OXI Oxidation	14	14	15	16
SUL Sulfur Products	19	21	21	20
NIT Nitration	6	6	7	7

**ANTIFREEZE**

	06-Jan-22	03-Nov-21	10-Sep-21	26-Jul-21
A Antifreeze	N	N	N	N

**FUEL**

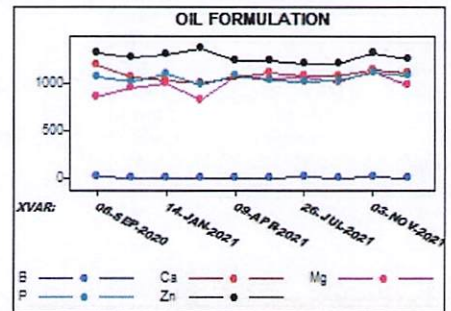
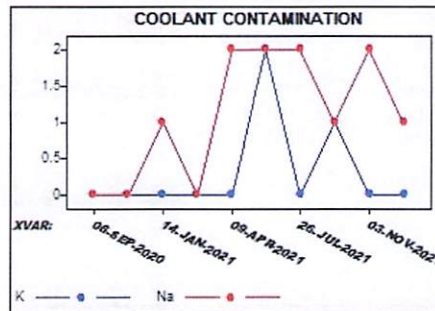
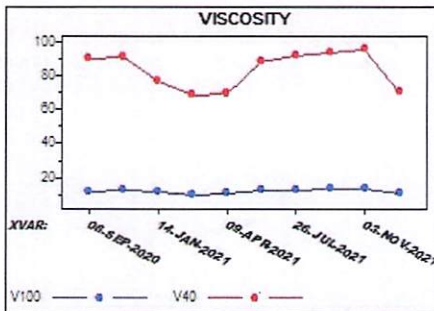
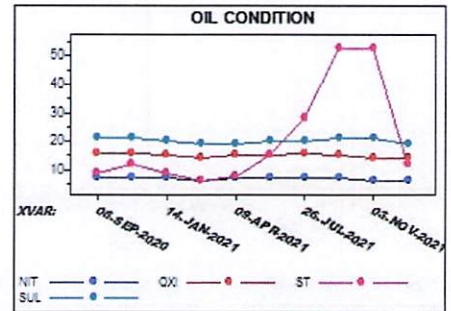
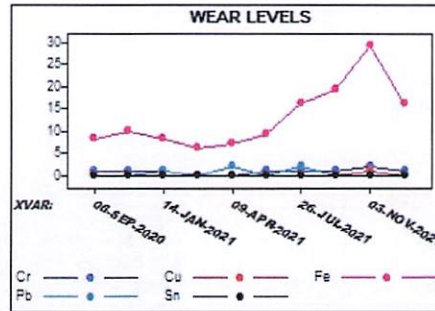
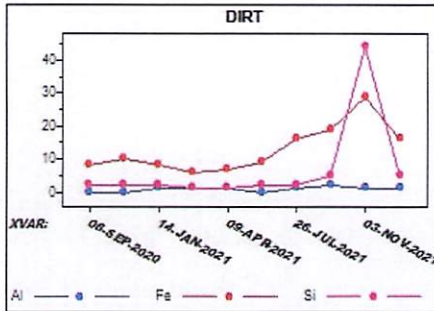
	06-Jan-22	03-Nov-21	10-Sep-21	26-Jul-21
F Fuel	N	N	N	N

**FUEL CONTENT (%)**

	06-Jan-22	03-Nov-21	10-Sep-21	26-Jul-21
PFc Percent Fuel			0.84	

**WATER**

	06-Jan-22	03-Nov-21	10-Sep-21	26-Jul-21
W Water	N	N	N	N



**Report Comment**

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJUVrs>. Access our online platform: <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or [oilsupport@finning.com](mailto:oilsupport@finning.com).

ENGINE

EQUIP NUM: EX127

SERIAL NUMBER: C7K01499

N030-51316-0507

LABEL#: 200755245

SAMPLE SHIP TIME (days) : 9

GALENA CONTRACTORS

LTD

RECEIVED DATE: 12-Nov-21

CAT 325DFM\_CAT - CAT C7



Monitor Compartment

Interp By: Peter Lewandowski

Interpreted On: 15-Nov-21

ELEVATED SILICON APPEARS TO BE RESIDUAL FROM A COMPOUND USED IN ASSEMBLY OR REPAIRS. ELEVATED IRON MAY BE SOURCED TO BEARINGS; GEARS; SPLINES; SHAFTS; HOUSING; NON-MECHANICAL ORIGIN. OTHER READINGS APPEAR TO BE NORMAL. CHANGE OIL. RESAMPLE TO MONITOR.

**SAMPLE INFORMATION**



	03-Nov-21	10-Sep-21	26-Jul-21	20-May-21
Sampled Date	03-Nov-21	10-Sep-21	26-Jul-21	20-May-21
Sample Id	N030-51316-0507	N030-51260-0588	N030-51216-0394	N030-51152-0712
Lab Date	12-Nov-21	17-Sep-21	04-Aug-21	01-Jun-21
Meter [Hr]	10934	10656	10403	10154
Comp Meter [Hr]	10934	10656	10403	10154
Meter On Fluid	278	253	249	256
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type	DURON SHP	DURON SHP	DURON SHP	DURON SHP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Drainage Loop	U	U	U	U

**PREVIOUS SAMPLE**

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

**CONDITION / CONTAMINATION**

		03-Nov-21	10-Sep-21	26-Jul-21	20-May-21
<b>VISCOSITY (Centistokes)</b>					
V100	Viscosity at 100 C	13.00	13.1	12.7	12.3
<b>VISCOSITY (Centistokes)</b>					
V40	Viscosity at 40 C	94.70	93.5	91.3	88.3

**WEAR LEVELS / ADDITIVES**

	03-Nov-21	10-Sep-21	26-Jul-21	20-May-21	
<b>ELEMENTAL ANALYSIS (ppm)</b>					
Na	Sodium	2	1	2	2
K	Potassium	0	1	0	2
Si	Silicon	44	5	2	2
Al	Aluminum	1	2	1	0
Fe	Iron	29	19	16	9
Cr	Chromium	2	1	1	1
Pb	Lead	0	0	2	0
Cu	Copper	1	0	0	0
Sn	Tin	0	0	0	0
Ni	Nickel	0	1	0	1
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1314	1205	1204	1231
Ca	Calcium	1142	1077	1075	1100
Mg	Magnesium	1129	1004	1061	1037
Ba	Barium	0	0	0	0
B	Boron	3	1	3	1
Mo	Molybdenum	59	58	59	62
P	Phosphorus	1104	1028	1002	1021

**VISCOSITY INDEX**

		135	139	136	134
VI	Viscosity Index				

**INFRARED (UFM)**

		53	53	28	15
ST	Soot				
OXI	Oxidation	14	15	16	15
SUL	Sulfur Products	21	21	20	20
NIT	Nitration	6	7	7	7

**ANTIFREEZE**

		N	N	N	N
A	Antifreeze				

**FUEL**

		N	N	N	N
F	Fuel				

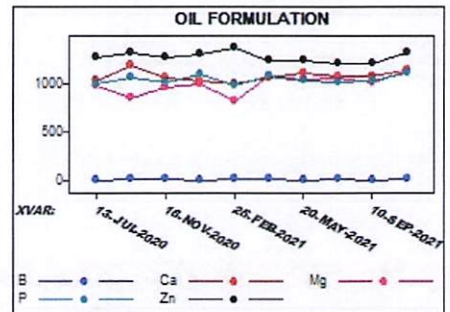
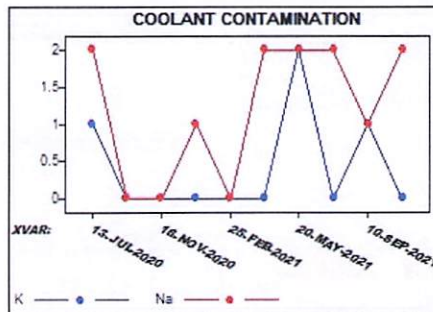
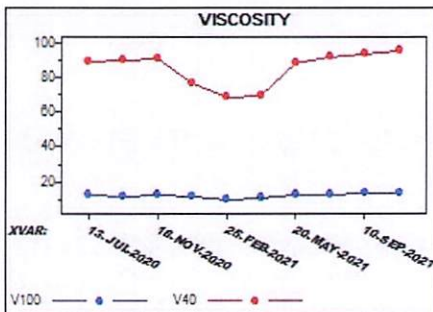
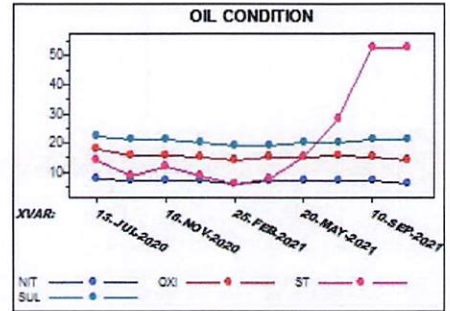
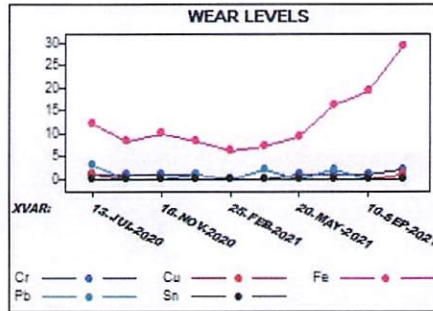
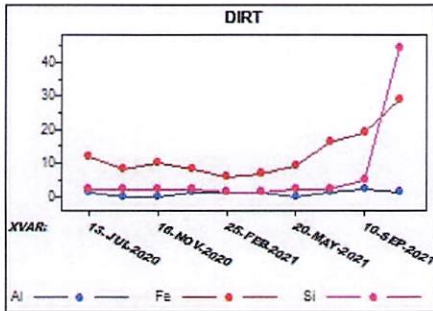
**FUEL CONTENT (%)**

		0.84	0.54
PFC	Percent Fuel		

**WATER**

		N	N	N	N
W	Water				

*6 injectors & cups & seals  
Done @ 10:55 AM  
82 HRS Before.*



### Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>. Access our online platform: <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or [oilsupport@finning.com](mailto:oilsupport@finning.com).

**ENGINE**

**N030-51260-0588**  
 LABEL#: 200756235  
 SAMPLE SHIP TIME (days) : 7  
**GALENA CONTRACTORS LTD**  
 RECEIVED DATE: 17-Sep-21

**EQUIP NUM: EX127**  
**CAT 325DFM\_CAT - CAT C7**  
**No Action Required**

**SERIAL NUMBER: C7K01499**

Interp By: Fluid Interpreter  
 Interpreted On: 20-Sep-21

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

**SAMPLE INFORMATION**

	10-Sep-21	26-Jul-21	20-May-21	09-Apr-21
Sample Date	10-Sep-21	26-Jul-21	20-May-21	09-Apr-21
Sample Id	N030-51260-0588	N030-51216-0394	N030-51152-0712	N030-51109-0141
Lab Date	17-Sep-21	04-Aug-21	01-Jun-21	19-Apr-21
Meter [Hr]	10656	10403	10154	9898
Comp Meter [Hr]	10656	10403	10154	9898
Meter On Fluid	253	249	256	291
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	15W-40	15W-40	10W-30
Fluid Type	DURON SHP	DURON SHP	DURON SHP	DURON SHP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Kidney Loop	U	U	U	U

**PREVIOUS SAMPLE**

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

**CONDITION / CONTAMINATION**

		10-Sep-21	26-Jul-21	20-May-21	09-Apr-21
<b>VISCOSITY (Centistokes)</b>					
V100	Viscosity at 100 C	13.1	12.7	12.3	10.4
<b>VISCOSITY (Centistokes)</b>					
V40	Viscosity at 40 C	93.5	91.3	88.3	69.2

**WEAR LEVELS / ADDITIVES**

	10-Sep-21	26-Jul-21	20-May-21	09-Apr-21	
<b>ELEMENTAL ANALYSIS (ppm)</b>					
Na	Sodium	1	2	2	2
K	Potassium	1	0	2	0
Si	Silicon	5	2	2	1
Al	Aluminum	2	1	0	1
Fe	Iron	19	16	9	7
Cr	Chromium	1	1	1	0
Pb	Lead	0	2	0	2
Cu	Copper	0	0	0	0
Sn	Tin	0	0	0	0
Ni	Nickel	1	0	1	0
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1205	1204	1231	1241
Ca	Calcium	1077	1075	1100	1057
Mg	Magnesium	1004	1061	1037	1071
Ba	Barium	0	0	0	0
B	Boron	1	3	1	2
Mo	Molybdenum	58	59	62	61
P	Phosphorus	1028	1002	1021	1065

**VISCOSITY INDEX**

VI	Viscosity Index	139	136	134	137
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**INFRARED (UFM)**

		53	28	15	8
ST	Soot				
OXI	Oxidation	15	16	15	15
SUL	Sulfur Products	21	20	20	19
NIT	Nitration	7	7	7	7

**ANTIFREEZE**

A	Antifreeze	N	N	N	N
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**FUEL**

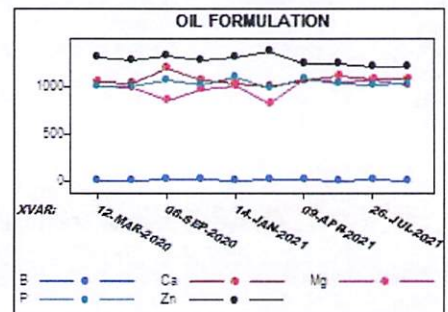
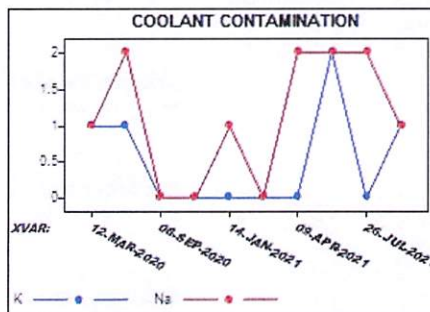
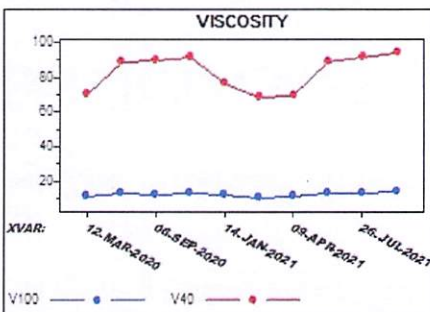
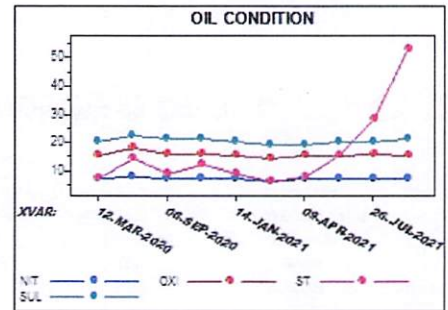
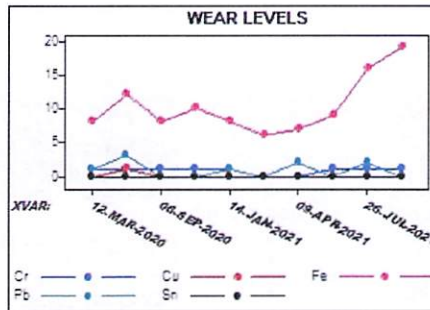
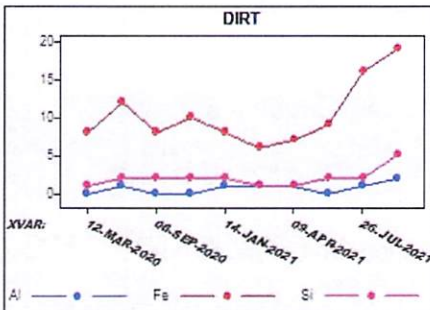
F	Fuel	N	N	N	N
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**FUEL CONTENT (%)**

PFC	Percent Fuel	0.84		0.54	
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**WATER**

W	Water	N	N	N	N
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Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>. Access our online platform: <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or [oilsupport@finning.com](mailto:oilsupport@finning.com).

**ENGINE**

**N030-51216-0394**

LABEL#: 200720305

SAMPLE SHIP TIME (days) : 9

**GALENA CONTRACTORS LTD**

RECEIVED DATE: 04-Aug-21

**EQUIP NUM: EX127**

**CAT 325DFM\_CAT - CAT C7**

**No Action Required**

**SERIAL NUMBER: C7K01499**

**Interp By: Greg Eyre**

**Interpreted On: 05-Aug-21**

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

**SAMPLE INFORMATION**

	26-Jul-21	20-May-21	09-Apr-21	25-Feb-21
Sampled Date	26-Jul-21	20-May-21	09-Apr-21	25-Feb-21
Sample Id	N030-51216-0394	N030-51152-0712	N030-51109-0141	N030-51063-0750
Lab Date	04-Aug-21	01-Jun-21	19-Apr-21	04-Mar-21
Meter [Hr]	10403	10154	9898	9607
Comp Meter [Hr]	10403	10154	9898	9607
Meter On Fluid	249	256	291	239
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	15W-40	10W-30	10W-30
Fluid Type	DURON SHP	DURON SHP	DURON SHP	DURON SHP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Kidney Loop	U	U	U	U

**PREVIOUS SAMPLE**

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. VISCOSITY INDICATES 30W OIL; FUEL TEST IS NEGATIVE. RESAMPLE TO MONITOR AT NEXT SERVICE INTERVAL.

**CONDITION / CONTAMINATION**

		26-Jul-21	20-May-21	09-Apr-21	25-Feb-21
<b>VISCOSITY (Centistokes)</b>					
V100	Viscosity at 100 C	12.7	12.3	10.4	10.2
<b>VISCOSITY (Centistokes)</b>					
V40	Viscosity at 40 C	91.3	88.3	69.2	68.6

**WEAR LEVELS / ADDITIVES**

		26-Jul-21	20-May-21	09-Apr-21	25-Feb-21
<b>ELEMENTAL ANALYSIS (ppm)</b>					
Na	Sodium	2	2	2	0
K	Potassium	0	2	0	0
Si	Silicon	2	2	1	1
Al	Aluminum	1	0	1	1
Fe	Iron	16	9	7	6
Cr	Chromium	1	1	0	0
Pb	Lead	2	0	2	0
Cu	Copper	0	0	0	0
Sn	Tin	0	0	0	0
Ni	Nickel	0	1	0	0
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1204	1231	1241	1356
Ca	Calcium	1075	1100	1057	987
Mg	Magnesium	1061	1037	1071	809
Ba	Barium	0	0	0	0
B	Boron	3	1	2	2
Mo	Molybdenum	59	62	61	58
P	Phosphorus	1002	1021	1065	980

**VISCOSITY INDEX**

VI	Viscosity Index	136	134	137	134
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**INFRARED (UFM)**

		26-Jul-21	20-May-21	09-Apr-21	25-Feb-21
ST	Soot	28	15	8	6
OXI	Oxidation	16	15	15	14
SUL	Sulfur Products	20	20	19	19
NIT	Nitration	7	7	7	6

**ANTIFREEZE**

A	Antifreeze	N	N	N	N
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**FUEL**

F	Fuel	N	N	N	N
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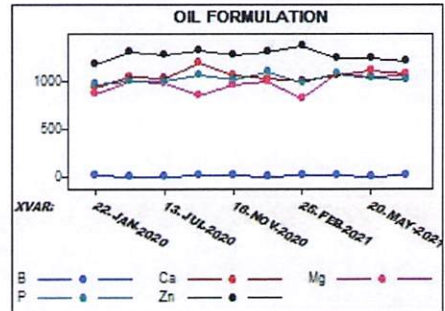
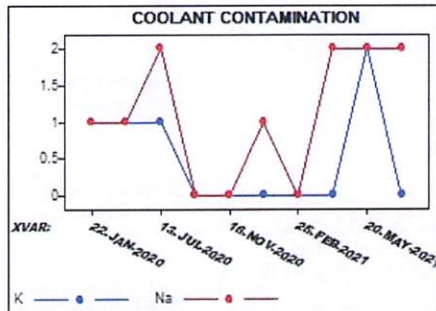
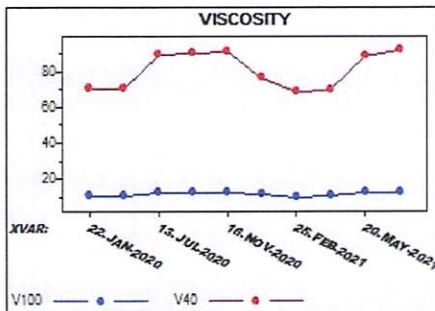
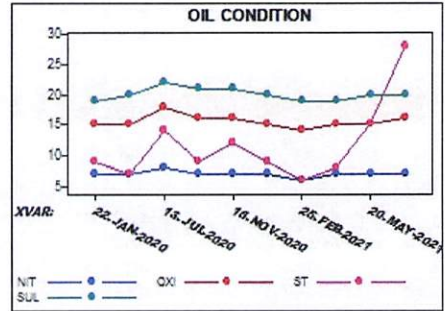
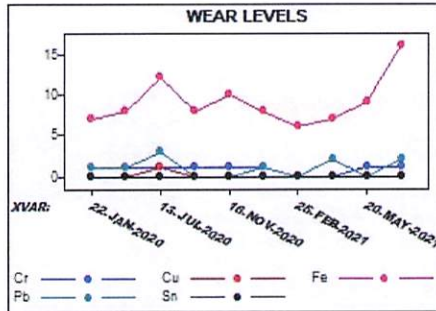
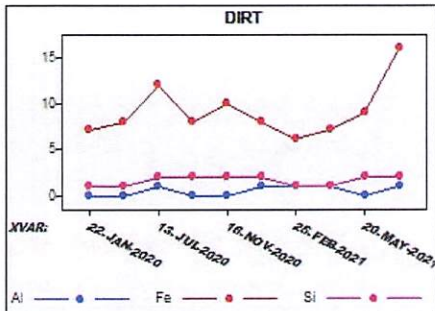
**FUEL CONTENT (%)**

PFC	Percent Fuel	0.54
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**WATER**

W	Water	N	N	N	N
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Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or component thereof.



**Report Comment**

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>. Access our online platform: <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or [oilsupport@finning.com](mailto:oilsupport@finning.com).

**ENGINE**
**EQUIP NUM: EX127**
**SERIAL NUMBER: C7K01499**
**N030-51152-0712**

LABEL#: 200720459

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 12

**GALENA CONTRACTORS**
**LTD**
**CAT 325DFM\_CAT - CAT C7**
**No Action Required**
**Interp By: Greg Eyre**
**Interpreted On: 03-Jun-21**

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. VISCOSITY INDICATES 30W OIL; FUEL TEST IS NEGATIVE. RESAMPLE TO MONITOR AT NEXT SERVICE INTERVAL.

**SAMPLE INFORMATION**

	20-May-21	09-Apr-21	25-Feb-21	14-Jan-21
Sampled Date	20-May-21	09-Apr-21	25-Feb-21	14-Jan-21
Sample Id	N030-51152-0712	N030-51109-0141	N030-51063-0750	N030-51021-0132
Lab Date	01-Jun-21	19-Apr-21	04-Mar-21	21-Jan-21
Meter [Hr]	10154	9898	9607	9368
Comp Meter [Hr]	10154	9898	9607	9368
Meter On Fluid	256	291	239	283
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	10W-30	10W-30	10W-30
Fluid Type	DURON SHP	DURON SHP	DURON SHP	DURON SHP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Kidney Loop	U	U	U	U

**PREVIOUS SAMPLE**

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

**CONDITION / CONTAMINATION**

	20-May-21	09-Apr-21	25-Feb-21	14-Jan-21
<b>VISCOSITY (Centistokes)</b>				
V100 Viscosity at 100 C	12.3	10.4	10.2	11.2

<b>VISCOSITY (Centistokes)</b>				
V40 Viscosity at 40 C	88.3	69.2	68.6	75.8

**VISCOSITY INDEX**

VI Viscosity Index	134	137	134	138
--------------------	-----	-----	-----	-----

**INFRARED (UFM)**

ST Soot	15	8	6	9
OXI Oxidation	15	15	14	15
SUL Sulfur Products	20	19	19	20
NIT Nitration	7	7	6	7

**ANTIFREEZE**

A Antifreeze	N	N	N	N
--------------	---	---	---	---

**FUEL**

F Fuel	N	N	N	N
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**FUEL CONTENT (%)**

PFC Percent Fuel	0.54
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**WATER**

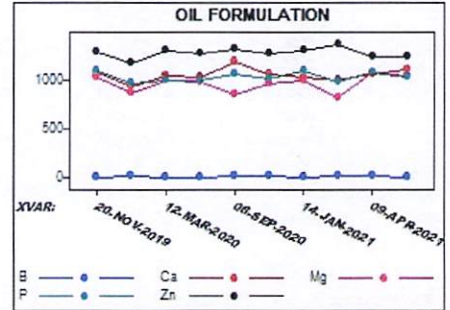
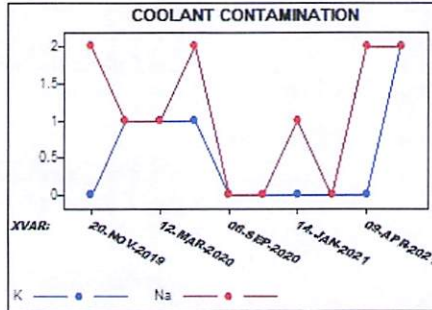
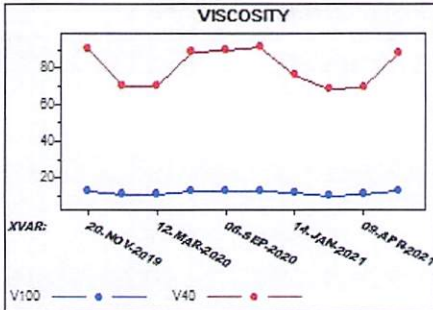
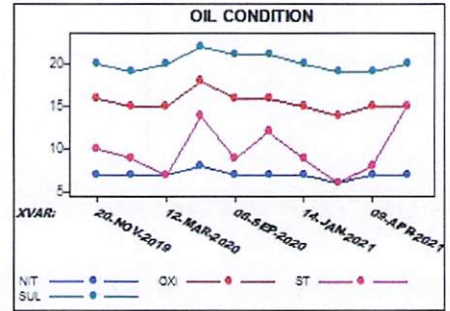
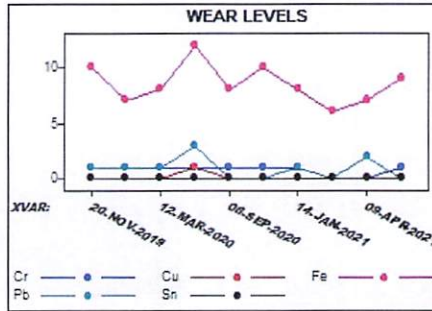
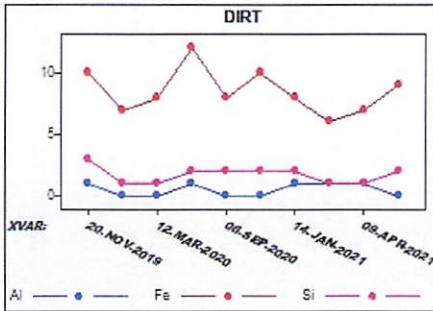
W Water	N	N	N	N
---------	---	---	---	---

**WEAR LEVELS / ADDITIVES**

20-May-21 09-Apr-21 25-Feb-21 14-Jan-21

**ELEMENTAL ANALYSIS (ppm)**

Na Sodium	2	2	0	1
K Potassium	2	0	0	0
Si Silicon	2	1	1	2
Al Aluminum	0	1	1	1
Fe Iron	9	7	6	8
Cr Chromium	1	0	0	1
Pb Lead	0	2	0	1
Cu Copper	0	0	0	0
Sn Tin	0	0	0	0
Ni Nickel	1	0	0	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	1231	1241	1356	1298
Ca Calcium	1100	1057	987	1024
Mg Magnesium	1037	1071	809	997
Ba Barium	0	0	0	0
B Boron	1	2	2	1
Mo Molybdenum	62	61	58	65
P Phosphorus	1021	1065	980	1084



**Report Comment**

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>. Access our online platform: <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or oilsupport@finning.com.

GINE

EQUIP NUM: EX127

SERIAL NUMBER: C7K01499

N030-51109-0141

LABEL#: 200605420

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 10

**GALENA CONTRACTORS LTD**

CAT 325DFM\_CAT - CAT C7  
 No Action Required

Interp By: Peter Leggo  
 Interpreted On: 20-Apr-21

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

### SAMPLE INFORMATION

	09-Apr-21	25-Feb-21	14-Jan-21	18-Nov-20
Sampled Date	09-Apr-21	25-Feb-21	14-Jan-21	18-Nov-20
Sample Id	N030-51109-0141	N030-51063-0750	N030-51021-0132	N030-50336-0489
Lab Date	19-Apr-21	04-Mar-21	21-Jan-21	01-Dec-20
Meter [Hr]	9898	9607	9368	9085
Comp Meter [Hr]	9898	9607	9368	9085
Meter On Fluid	291	239	283	429
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-30	10W-30	10W-30	15W-40
Fluid Type	DURON SHP	DURON SHP	DURON SHP	DURON SHP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Drain Loop	U	U	U	U

### PREVIOUS SAMPLE

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

### CONDITION / CONTAMINATION

	09-Apr-21	25-Feb-21	14-Jan-21	18-Nov-20
<b>VISCOSITY (Centistokes)</b>				
V100 Viscosity at 100 C	10.4	10.2	11.2	12.3
<b>VISCOSITY (Centistokes)</b>				
V40 Viscosity at 40 C	69.2	68.6	75.8	91.0

### WEAR LEVELS / ADDITIVES

	09-Apr-21	25-Feb-21	14-Jan-21	18-Nov-20
<b>ELEMENTAL ANALYSIS (ppm)</b>				
Na Sodium	2	0	1	0
K Potassium	0	0	0	0
Si Silicon	1	1	2	2
Al Aluminum	1	1	1	0
Fe Iron	7	6	8	10
Cr Chromium	0	0	1	1
Pb Lead	2	0	1	0
Cu Copper	0	0	0	0
Sn Tin	0	0	0	0
Ni Nickel	0	0	0	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Zn Zinc	1241	1356	1298	1263
Ca Calcium	1057	987	1024	1054
Mg Magnesium	1071	809	997	952
Ba Barium	0	0	0	0
B Boron	2	2	1	2
Mo Molybdenum	61	58	65	59
P Phosphorus	1065	980	1084	1016

### VISCOSITY INDEX

VI Viscosity Index	137	134	138	129
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### INFRARED (UFM)

ST Soot	8	6	9	12
OXI Oxidation	15	14	15	16
SUL Sulfur Products	19	19	20	21
NIT Nitration	7	6	7	7

### ANTIFREEZE

A Antifreeze	N	N	N	N
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### FUEL

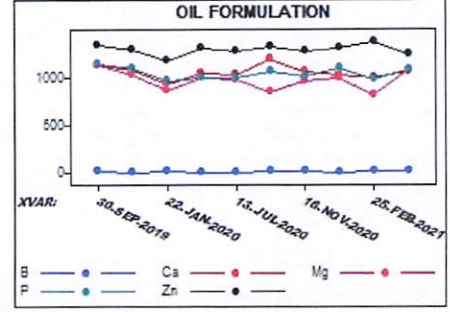
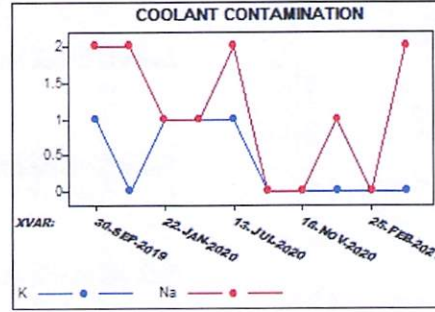
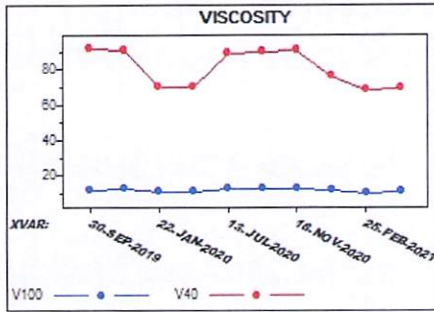
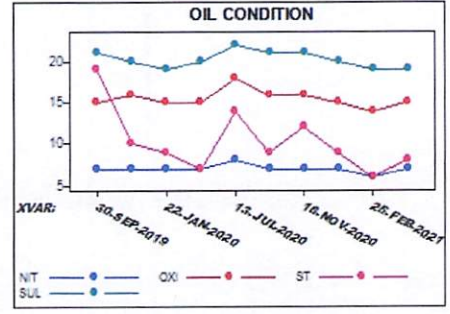
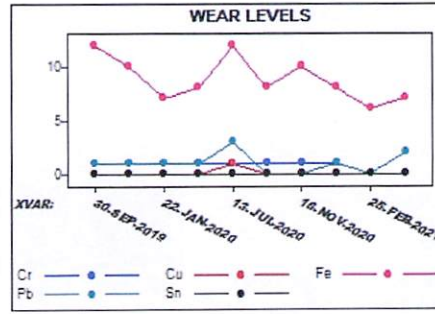
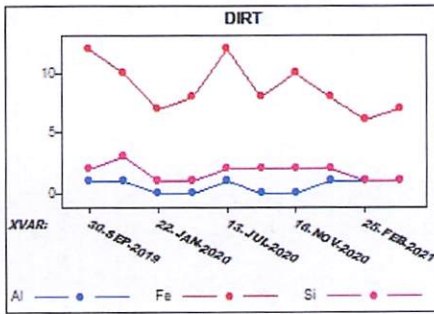
F Fuel	N	N	N	N
--------	---	---	---	---

### FUEL CONTENT (%)

PFc Percent Fuel	0.53
------------------	------

### WATER

W Water	N	N	N	N
---------	---	---	---	---



**Report Comment**

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>. Access our online platform: <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or [oilsupport@finning.com](mailto:oilsupport@finning.com).

**ENGINE**
**EQUIP NUM: EX127**
**SERIAL NUMBER: C7K01499**
**N030-51063-0750**

LABEL#: 200605711

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 7

**GALENA CONTRACTORS  
LTD**
**CAT 325DFM\_CAT - CAT C7**

**No Action Required**
**Interp By: Peter Lewandowski**
**Interpreted On: 05-Mar-21**

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

**SAMPLE INFORMATION**

	25-Feb-21	14-Jan-21	18-Nov-20	08-Sep-20
Sample Id	N030-51063-0750	N030-51021-0132	N030-50336-0489	N030-50259-0566
Lab Date	04-Mar-21	21-Jan-21	01-Dec-20	15-Sep-20
Meter [Hr]	9607	9368	9085	8656
Comp Meter [Hr]	9607	9368	9085	8656
Meter On Fluid	239	283	429	266
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-30	10W-30	15W-40	15W-40
Fluid Type	DURON SHP	DURON SHP	DURON SHP	DURON SHP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Washdown Loop	U	U	U	U

**PREVIOUS SAMPLE**

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

**CONDITION / CONTAMINATION**

		25-Feb-21	14-Jan-21	18-Nov-20	08-Sep-20
<b>VISCOSITY (Centistokes)</b>					
V100	Viscosity at 100 C	10.2	11.2	12.3	12.0

**FUEL CONTENT (%)**

		25-Feb-21	14-Jan-21	18-Nov-20	08-Sep-20
PFc	Percent Fuel			0.53	0.35

**WEAR LEVELS / ADDITIVES**

		25-Feb-21	14-Jan-21	18-Nov-20	08-Sep-20
<b>ELEMENTAL ANALYSIS (ppm)</b>					
Na	Sodium	0	1	0	0
K	Potassium	0	0	0	0
Si	Silicon	1	2	2	2
Al	Aluminum	1	1	0	0
Fe	Iron	6	8	10	8
Cr	Chromium	0	1	1	1
Pb	Lead	0	1	0	0
Cu	Copper	0	0	0	0
Sn	Tin	0	0	0	0
Ni	Nickel	0	0	0	1
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1356	1298	1263	1318
Ca	Calcium	987	1024	1054	1191
Mg	Magnesium	809	997	952	845
Ba	Barium	0	0	0	0
B	Boron	2	1	2	14
Mo	Molybdenum	58	65	59	55
P	Phosphorus	980	1084	1016	1061

**WATER**

		25-Feb-21	14-Jan-21	18-Nov-20	08-Sep-20
W	Water	N	N	N	N

**VISCOSITY (Centistokes)**

		25-Feb-21	14-Jan-21	18-Nov-20	08-Sep-20
V40	Viscosity at 40 C	68.6	75.8	91.0	89.8

**VISCOSITY INDEX**

		25-Feb-21	14-Jan-21	18-Nov-20	08-Sep-20
VI	Viscosity Index	134	138	129	126

**INFRARED (UFM)**

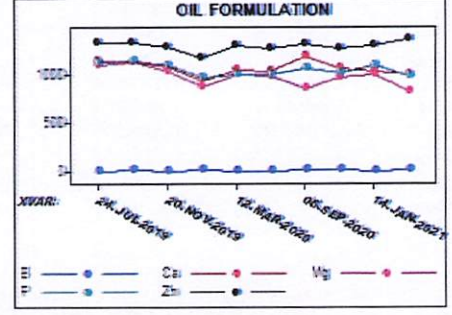
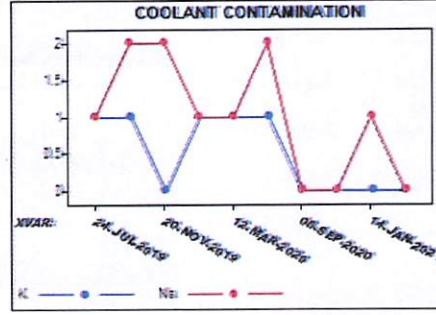
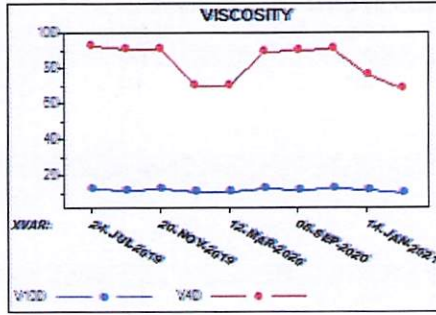
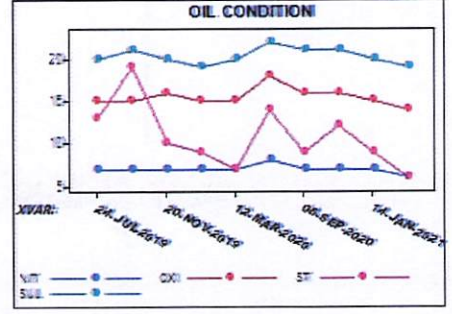
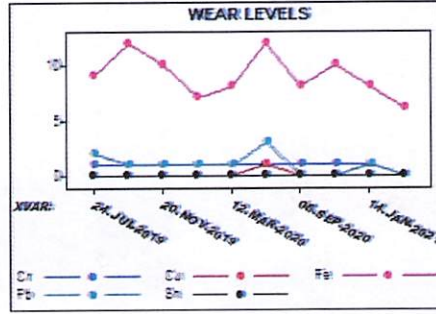
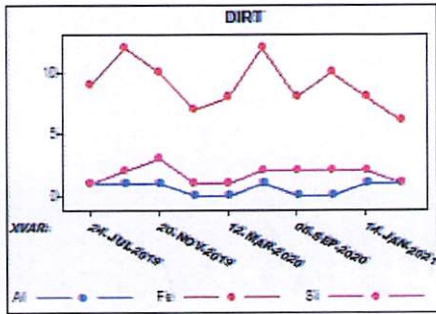
		25-Feb-21	14-Jan-21	18-Nov-20	08-Sep-20
ST	Soot	6	9	12	9
OXI	Oxidation	14	15	16	16
SUL	Sulfur Products	19	20	21	21
NIT	Nitration	6	7	7	7

**FUEL**

		25-Feb-21	14-Jan-21	18-Nov-20	08-Sep-20
F	Fuel	N	N	N	N

**ANTIFREEZE**

		25-Feb-21	14-Jan-21	18-Nov-20	08-Sep-20
A	Antifreeze	N	N	N	N



**Report Comment**

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJUVrs>. Access our online platform: <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or [oilsupport@finning.com](mailto:oilsupport@finning.com).

**ENGINE**

EQUIP NUM: EX127

SERIAL NUMBER: C7K01499

CAT 325DFM\_CAT - CAT C7

No Action Required

Interp By: Gregory Scribner

Interpreted On: 22-Jan-21

N030-51021-0132

LABEL#: 200605233

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 7

**GALENA CONTRACTORS LTD**

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

**SAMPLE INFORMATION**

	14-Jan-21	18-Nov-20	08-Sep-20	13-Jul-20
Sampled Date	14-Jan-21	18-Nov-20	08-Sep-20	13-Jul-20
Sample Id	N030-51021-0132	N030-50336-0489	N030-50259-0566	N030-50209-0311
Lab Date	21-Jan-21	01-Dec-20	15-Sep-20	27-Jul-20
Meter [Hr]	9368	9085	8656	8390
Comp Meter [Hr]	9368	9085	8656	8390
Meter On Fluid	283	429	266	512
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-30	15W-40	15W-40	15W-40
Fluid Type	DURON SHP	DURON SHP	DURON SHP	DURON SHP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Kidney Loop	U	U	U	U

**PREVIOUS SAMPLE**

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

For additional sample history, go to: [my.cat.com](http://my.cat.com)

**CONDITION / CONTAMINATION**

		14-Jan-21	18-Nov-20	08-Sep-20	13-Jul-20
<b>VISCOSITY (Centistokes)</b>					
V100	Viscosity at 100 C	11.2	12.3	12.0	12.3
<b>FUEL CONTENT (%)</b>					
Pfc	Percent Fuel		0.53	0.35	0.34

**WEAR LEVELS / ADDITIVES**

	14-Jan-21	18-Nov-20	08-Sep-20	13-Jul-20	
<b>ELEMENTAL ANALYSIS (ppm)</b>					
Na	Sodium	1	0	0	2
K	Potassium	0	0	0	1
Si	Silicon	2	2	2	2
Al	Aluminum	1	0	0	1
Fe	Iron	8	10	8	12
Cr	Chromium	1	1	1	1
Pb	Lead	1	0	0	3
Cu	Copper	0	0	0	1
Sn	Tin	0	0	0	0
Ni	Nickel	0	0	1	0
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1298	1263	1318	1271
Ca	Calcium	1024	1054	1191	1026
Mg	Magnesium	997	952	845	974
Ba	Barium	0	0	0	0
B	Boron	1	2	14	0
Mo	Molybdenum	65	59	55	62
P	Phosphorus	1084	1016	1061	1000

<b>WATER</b>					
W	Water	N	N	N	N

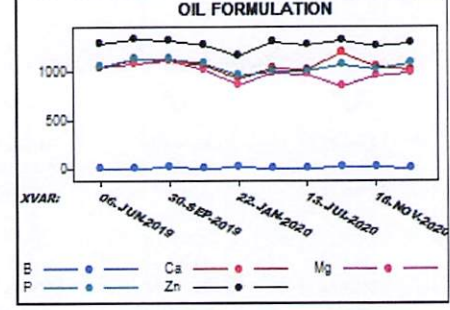
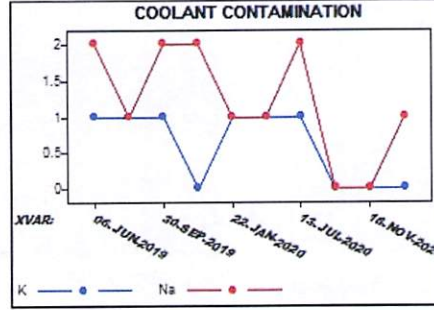
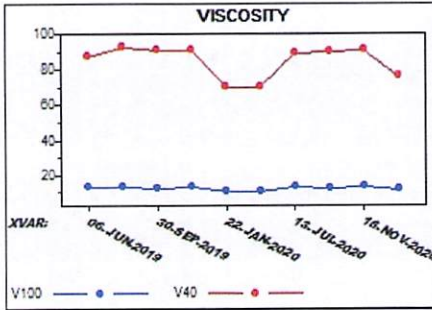
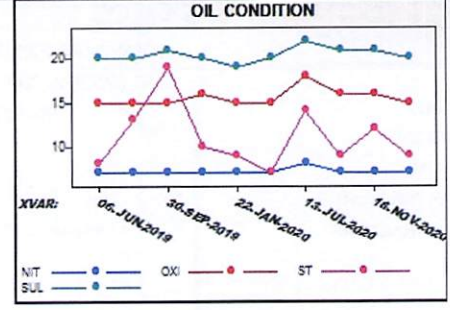
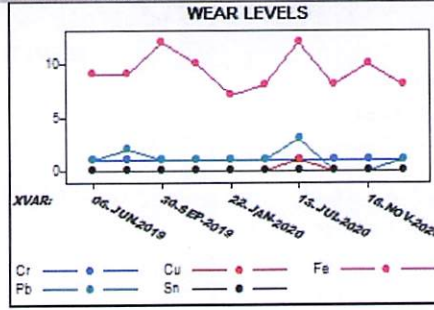
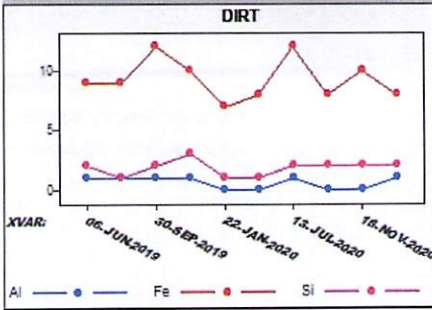
<b>VISCOSITY (Centistokes)</b>					
V40	Viscosity at 40 C	75.8	91.0	89.8	88.9

<b>VISCOSITY INDEX</b>					
VI	Viscosity Index	138	129	126	133

<b>INFRARED (UFM)</b>					
ST	Soot	9	12	9	14
OXI	Oxidation	15	16	16	18
SUL	Sulfur Products	20	21	21	22
NIT	Nitration	7	7	7	8

<b>FUEL</b>					
F	Fuel	N	N	N	N

<b>ANTIFREEZE</b>					
A	Antifreeze	N	N	N	N



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVVrs>. Access our online platform: <https://soswebmc.cat.com/cat-sos/samples>. Want to sign up for online portal?, Go Paperless? Or have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or oilsupport@finning.com.

**FINNING**

FINNING CANADA LTD. - Fluid Analysis Laboratory, 10910-170th Street, Edmonton, AB, T5S 1H6, CANADA

PHONE: 1-888 FINNING (346-6464)

Email: digitalservices@finning.com Web: www.finning.com

**CONTACT INFORMATION**

KEVIN CARTER  
 GALENA CONTRACTORS LTD  
 BOX 70 - 100 Mill Rd  
 NAKUSP, BC  
 VOG 1R0  
 PHONE: 2502654100  
 FAX: 2502653831  
 Email:

Interp By: Peter Lewandowski

**EQUIPMENT**

EQUIP NUM: EX127  
 SERIAL NUMBER: C7K01499  
 MODEL : 325DFM\_CAT  
 MANUFACTURER : CAT  
 COMPANY NAME : GALENA CONTRACTORS LTD  
 JOB SITE :  
 AREA:  
 REGION:

**SAMPLE INFORMATION**

COMPARTMENT NAME : ENGINE  
 COMP SERIAL NUM:  
 COMPARTMENT MODEL : C7\_CAT  
 LABEL#: 200574969  
 SHOP JOB NUM :  
 SAMPLE TYPE: OIL  
 SAMPLE SHIP TIME (days) : 13  
 SAMPLE LOCATION :

**No Action  
 Required**

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

LAB #

N030-50336-0489

PROCESS 01-Dec-20  
 DATE

**WEAR/CONTAMINATION - ADDITIVES/FORMULATION**

SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Na	K	Si	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
18-Nov-20	N030-50336-0489	9085	429	Y	Y	0	0	2	0	10	1	0	0	0	0	0	0	0	1263	1054	952	0	2	59	1016
08-Sep-20	N030-50259-0566	8656	266	Y	Y	0	0	2	0	8	1	0	0	0	1	0	0	0	1318	1191	845	0	14	55	1061
13-Jul-20	N030-50209-0311	8390	512	Y	Y	2	1	2	1	12	1	3	1	0	0	0	0	0	1271	1026	974	0	0	62	1000
12-Mar-20	N030-50079-0372	7878	328	Y	Y	1	1	1	0	8	1	1	0	0	0	0	0	0	1302	1038	985	0	1	64	1000

**OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION**

SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	A	F	PFc
18-Nov-20	N030-50336-0489	9085	429	PETRO-CAN	DURON SHP	15W-40	Y	Y	12.3	91.0	129	12	16	21	7	N	N	0.53
08-Sep-20	N030-50259-0566	8656	266	PETRO-CAN	DURON SHP	15W-40	Y	Y	12.0	89.8	126	9	16	21	7	N	N	0.35
13-Jul-20	N030-50209-0311	8390	512	PETRO-CAN	DURON SHP	15W-40	Y	Y	12.3	88.9	133	14	18	22	8	N	N	0.34
12-Mar-20	N030-50079-0372	7878	328	PETRO-CAN	DURON SHP	10W-30	Y	Y	10.4	70.0	135	7	15	20	7	N	N	

**OIL CLEANLINESS**

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
18-Nov-20	N030-50336-0489	Y	Y	N
08-Sep-20	N030-50259-0566	Y	Y	N
13-Jul-20	N030-50209-0311	Y	Y	N
12-Mar-20	N030-50079-0372	Y	Y	N

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PFC = Percent Fuel Content, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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 NAKUSP, BC  
 V0G 1R0  
 PHONE: 2502654100  
 FAX: 2502653831  
 Email:

Interp By: Greg Eyre

**EQUIPMENT**

EQUIP NUM: EX127  
 SERIAL NUMBER: C7K01499  
 MODEL : 325DFM\_CAT  
 MANUFACTURER : CAT  
 COMPANY NAME : GALENA CONTRACTORS LTD  
 JOB SITE :  
 AREA:  
 REGION:

**SAMPLE INFORMATION**

COMPARTMENT NAME : ENGINE  
 COMP SERIAL NUM:  
 COMPARTMENT MODEL : C7\_CAT  
 LABEL#: 200439065  
 SHOP JOB NUM :  
 SAMPLE TYPE: OIL  
 SAMPLE SHIP TIME (days) : 7  
 SAMPLE LOCATION :

No Action  
 Required

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. VISCOSITY INDICATES 30W OIL; FUEL TEST IS NEGATIVE.  
 RESAMPLE TO MONITOR AT NEXT SERVICE INTERVAL.

LAB #

N030-50259-0566

PROCESS 15-Sep-20  
 DATE

**WEAR/CONTAMINATION - ADDITIVES/FORMULATION**

SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Na	K	Si	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
08-Sep-20	N030-50259-0566	8656	266	Y	Y	0	0	2	0	8	1	0	0	0	1	0	0	0	1318	1191	845	0	14	55	1061
13-Jul-20	N030-50209-0311	8390	512	Y	Y	2	1	2	1	12	1	3	1	0	0	0	0	0	1271	1026	974	0	0	62	1000
12-Mar-20	N030-50079-0372	7878	328	Y	Y	1	1	1	0	8	1	1	0	0	0	0	0	0	1302	1038	985	0	1	64	1000
22-Jan-20	N030-50031-0208	7550	308	Y	Y	1	1	1	0	7	1	1	0	0	0	0	0	0	1168	925	862	0	2	55	955

**OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION**

SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	A	F	PFc
08-Sep-20	N030-50259-0566	8656	266	PETRO-CAN	DURON SHP	15W-40	Y	Y	12.0	89.8	126	9	16	21	7	N	N	0.35
13-Jul-20	N030-50209-0311	8390	512	PETRO-CAN	DURON SHP	15W-40	Y	Y	12.3	88.9	133	14	18	22	8	N	N	0.34
12-Mar-20	N030-50079-0372	7878	328	PETRO-CAN	DURON SHP	10W-30	Y	Y	10.4	70.0	135	7	15	20	7	N	N	
22-Jan-20	N030-50031-0208	7550	308	PETRO-CAN	DURON SHP	10W-30	Y	Y	10.4	70.0	135	9	15	19	7	N	N	

**OIL CLEANLINESS**

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
08-Sep-20	N030-50259-0566	Y	Y	N
13-Jul-20	N030-50209-0311	Y	Y	N
12-Mar-20	N030-50079-0372	Y	Y	N
22-Jan-20	N030-50031-0208	Y	Y	N

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PFC = Percent Fuel Content, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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### CONTACT INFORMATION

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 PHONE: 2502654100  
 FAX: 2502653831  
 Email:

Interp By: Greg Eyre

### EQUIPMENT

EQUIP NUM: EX127  
 SERIAL NUMBER: C7K01499  
 MODEL : 325DFM\_CAT  
 MANUFACTURER : CAT  
 COMPANY NAME : GALENA CONTRACTORS LTD  
 JOB SITE :  
 AREA:  
 REGION:

### SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE  
 COMP SERIAL NUM:  
 COMPARTMENT MODEL : C7\_CAT  
 LABEL#: 200313592  
 SHOP JOB NUM :  
 SAMPLE TYPE: OIL  
 SAMPLE SHIP TIME (days) : 14  
 SAMPLE LOCATION :

**No Action  
 Required**

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. VISCOSITY INDICATES 30W OIL; FUEL TEST IS NEGATIVE.  
 RESAMPLE TO MONITOR AT NEXT SERVICE INTERVAL.

LAB #

N030-50209-0311

PROCESS 7/27/2020

DATE

#### WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Na	K	Si	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
13-Jul-20	N030-50209-0311	8390	512	Y	Y	2	1	2	1	12	1	3	1	0	0	0	0	0	1271	1026	974	0	0	62	1000
12-Mar-20	N030-50079-0372	7878	328	Y	Y	1	1	1	0	8	1	1	0	0	0	0	0	0	1302	1038	985	0	1	64	1000
22-Jan-20	N030-50031-0208	7550	308	Y	Y	1	1	1	0	7	1	1	0	0	0	0	0	0	1168	925	862	0	2	55	955
20-Nov-19	N030-49332-0627	7242	300	Y	Y	2	0	3	1	10	1	1	0	0	0	0	0	0	1282	1066	1027	0	1	65	1089

#### OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	A	F	PFc
13-Jul-20	N030-50209-0311	8390	512	PETRO-CAN	DURON SHP	15W-40	Y	Y	12.3	88.9	133	14	18	22	8	N	N	0.34
12-Mar-20	N030-50079-0372	7878	328	PETRO-CAN	DURON SHP	10W-30	Y	Y	10.4	70.0	135	7	15	20	7	N	N	
22-Jan-20	N030-50031-0208	7550	308	PETRO-CAN	DURON SHP	10W-30	Y	Y	10.4	70.0	135	9	15	19	7	N	N	
20-Nov-19	N030-49332-0627	7242	300	PETRO-CAN	DURON HP	15W-40	Y	Y	12.6	90.8	135	10	16	20	7	N	N	

#### OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
13-Jul-20	N030-50209-0311	Y	Y	N
12-Mar-20	N030-50079-0372	Y	Y	N
22-Jan-20	N030-50031-0208	Y	Y	N
20-Nov-19	N030-49332-0627	Y	Y	N

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PFC = Percent Fuel Content, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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 PHONE: 2502654100  
 FAX: 2502653831  
 Email:

**EQUIPMENT**

CUSTOMER EQUIP NUM : EX127  
 SERIAL NUMBER : C7K01499  
 MODEL : 325DFM\_CAT  
 MANUFACTURER : CAT  
 COMPANY NAME : GALENA CONTRACTORS LTD  
 JOB SITE :  
 AREA :  
 REGION :

**SAMPLE INFORMATION**

COMPARTMENT NAME : RADIATOR  
 COMP SERIAL NUM :  
 COMPARTMENT MODEL :  
 LABEL# : 200321892  
 SHOP JOB NUM :  
 SAMPLE TYPE : COOLANT  
 SAMPLE SHIP TIME (days) : 7  
 SAMPLE LOCATION :

Interp By: Greg Eyre

**Monitor  
 Compartment**

NITRITE INHIBITOR LEVEL IS BELOW THE ACCEPTABLE LIMIT TO PROVIDE ADEQUATE CORROSION/EROSION PROTECTION. SUGGEST TO MAKE AN ELC EXTENDER ADDITION AND RESAMPLE TO MONITOR.

LAB #

N030-50079-9011

PROCESS 19-Mar-20  
 DATE

**CORROSION ELEMENTS - COOLANT FORMULATION**

SAMPLE DATE	SAMPLE ID	FLUID BRAND	TYPE	NO2
12-Mar-20	N030-50079-9011	CAT	ELC	86
05-Dec-18	N030-48351-9038	CAT	ELC	0

**FREEZE/BOIL PROTECTION - CONTAMINATION**

SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID BRAND	TYPE	FLUID CHANGE	GL	FP	BP	pH	CON	Foam
12-Mar-20	N030-50079-9011	7878	2600	CAT	ELC	U	82	-41	125	7.6	NA	norm
05-Dec-18	N030-48351-9038	5310	3000	CAT	ELC	U	62	-58	111	6.9	4928	norm

**COOLANT PHYSICALS**

SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID BRAND	TYPE	Color	App	Odor	Oil	PAmt
12-Mar-20	N030-50079-9011	7878	2600	CAT	ELC	orange/light	clear	norm	none	none
05-Dec-18	N030-48351-9038	5310	3000	CAT	ELC	Orange	clear	norm	none	none

App = Appearance, BP = Boil Point(°C), CON = Conductivity, FP = Freeze Point(°C), GL = Glycol, NO2 = Nitrite, PAmt = Precipitate Amount

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### CONTACT INFORMATION

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 Email:

Interp By: Peter Lewandowski

### EQUIPMENT

CUSTOMER EQUIP NUM : EX127  
 SERIAL NUMBER : C7K01499  
 MODEL : 325DFM\_CAT  
 MANUFACTURER : CAT  
 COMPANY NAME : GALENA CONTRACTORS LTD  
 JOB SITE :  
 AREA :  
 REGION :

### SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE  
 COMP SERIAL NUM :  
 COMPARTMENT MODEL : C7\_CAT  
 LABEL#: 200322281  
 SHOP JOB NUM :  
 SAMPLE TYPE: OIL  
 SAMPLE SHIP TIME (days) : 7  
 SAMPLE LOCATION :

**No Action  
 Required**

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

LAB #

N030-50079-0372

PROCESS 19-Mar-20  
 DATE

#### WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Na	K	Si	Al	Fe	Cr	Pb	Cu	Sn	Ni	Ag	Ti	V	Zn	Ca	Mg	Ba	B	Mo	P
12-Mar-20	N030-50079-0372	7878	328	Y	Y	1	1	1	0	8	1	1	0	0	0	0	0	0	1302	1038	985	0	1	64	1000
22-Jan-20	N030-50031-0208	7550	308	Y	Y	1	1	1	0	7	1	1	0	0	0	0	0	0	1168	925	862	0	2	55	955
20-Nov-19	N030-49332-0627	7242	300	Y	Y	2	0	3	1	10	1	1	0	0	0	0	0	0	1282	1066	1027	0	1	65	1089
30-Sep-19	N030-49281-0321	6942	346	Y	Y	2	1	2	1	12	1	1	0	0	0	0	0	0	1325	1119	1114	0	4	63	1131

#### OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	METER ( HR )	METER ON FLUID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	A	F	PFc
12-Mar-20	N030-50079-0372	7878	328	PETRO-CAN	DURON SHP	10W-30	Y	Y	10.4	70.0	135	7	15	20	7	N	N	
22-Jan-20	N030-50031-0208	7550	308	PETRO-CAN	DURON SHP	10W-30	Y	Y	10.4	70.0	135	9	15	19	7	N	N	
20-Nov-19	N030-49332-0627	7242	300	PETRO-CAN	DURON HP	15W-40	Y	Y	12.6	90.8	135	10	16	20	7	N	N	
30-Sep-19	N030-49281-0321	6942	346	PETRO-CAN	DURON HP	15W-40	Y	Y	11.7	91.1	119	19	15	21	7	N	N	0.33

#### OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
12-Mar-20	N030-50079-0372	Y	Y	N
22-Jan-20	N030-50031-0208	Y	Y	N
20-Nov-19	N030-49332-0627	Y	Y	N
30-Sep-19	N030-49281-0321	Y	Y	N

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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