

ENGINE

N030-51035-0248

LABEL#: 200593795

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 7

GALENA CONTRACTORS LTD

EQUIP NUM: SK627

CAT 545C - CAT C7

No Action Required

SERIAL NUMBER: 54500965

Interp By: Peter Lewandowski

Interpreted On: 05-Feb-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

	28-Jan-21	05-Nov-20	25-Jun-20	14-Feb-20
Sampled Date	28-Jan-21	05-Nov-20	25-Jun-20	14-Feb-20
Sample Id	N030-51035-0248	N030-50318-0416	N030-50185-0656	N030-50056-0437
Lab Date	04-Feb-21	13-Nov-20	03-Jul-20	25-Feb-20
Meter [Hr]	11330	11080	10811	10583
Comp Meter [Hr]	11330	11080	10811	10583
Meter On Fluid	250	269	228	245
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-30	15W-40	15W-40	10W-30
Fluid Type	DURON HP	DURON HP	DURON HP	DURON HP
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.

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

CONDITION / CONTAMINATION

		28-Jan-21	05-Nov-20	25-Jun-20	14-Feb-20
VISCOSITY (Centistokes)					
V100	Viscosity at 100 C	10.2	11.7	10.4	12.0

FUEL CONTENT (%)

PFc	Percent Fuel	1.03	0.88
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WATER

W	Water	N	N	N	N
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VISCOSITY (Centistokes)

V40	Viscosity at 40 C	68.6	83.2	67.8	85.1
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VISCOSITY INDEX

VI	Viscosity Index	134	133	140	135
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INFRARED (UFM)

ST	Soot	24	27	15	16
OXI	Oxidation	14	14	13	13
SUL	Sulfur Products	19	20	18	18
NIT	Nitration	7	7	5	6

FUEL

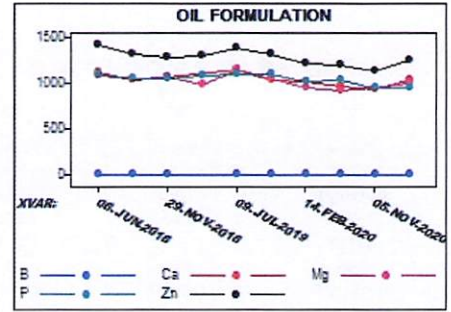
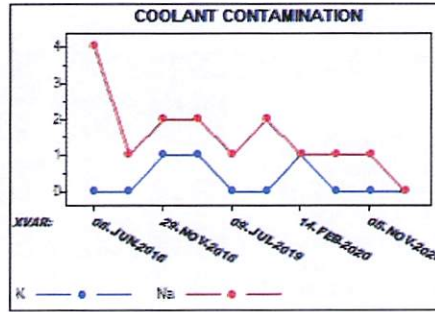
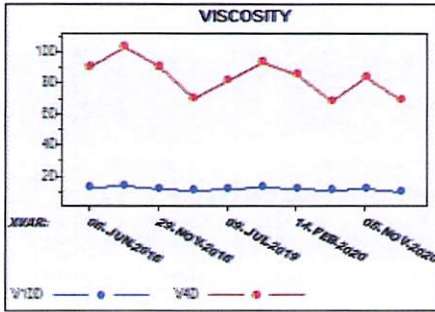
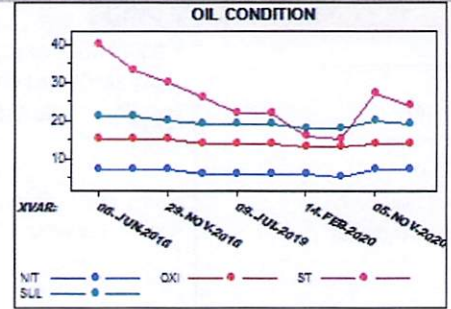
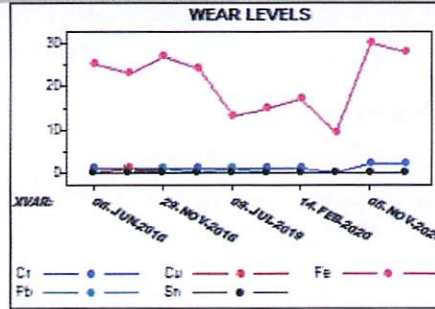
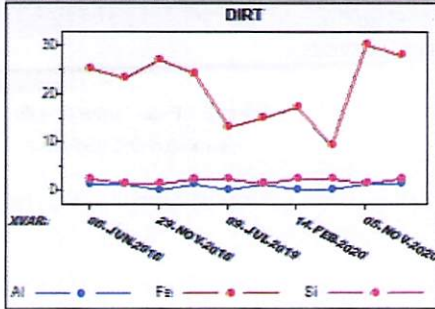
F	Fuel	N	N	N	N
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ANTIFREEZE

A	Antifreeze	N	N	N	N
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WEAR LEVELS / ADDITIVES

	28-Jan-21	05-Nov-20	25-Jun-20	14-Feb-20	
ELEMENTAL ANALYSIS (ppm)					
Na	Sodium	0	1	1	1
K	Potassium	0	0	0	1
Si	Silicon	2	1	2	2
Al	Aluminum	1	1	0	0
Fe	Iron	28	30	9	17
Cr	Chromium	2	2	0	1
Pb	Lead	0	0	0	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	1250	1133	1186	1208
Ca	Calcium	1022	935	957	1019
Mg	Magnesium	988	946	906	944
Ba	Barium	0	0	0	0
B	Boron	1	1	1	1
Mo	Molybdenum	63	53	54	59
P	Phosphorus	952	941	1023	1013



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.

CONTACT INFORMATION	EQUIPMENT	SAMPLE INFORMATION
KEVIN CARTER GALENA CONTRACTORS LTD BOX 70 - 100 Mill Rd NAKUSP, BC V0G 1R0 PHONE: 2502654100 FAX: 2502653831 Email:	EQUIP NUM: SK627 SERIAL NUMBER: 54500965 MODEL : 545C MANUFACTURER : CAT COMPANY NAME : GALENA CONTRACTORS LTD JOB SITE : AREA: REGION:	COMPARTMENT NAME : ENGINE COMP SERIAL NUM: COMPARTMENT MODEL : C7_CAT LABEL#: 200574780 SHOP JOB NUM : SAMPLE TYPE: OIL SAMPLE SHIP TIME (days) : 8 SAMPLE LOCATION :

Interp By: Greg Eyre

**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 #

N030-50318-0416

PROCESS DATE 13-Nov-20

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
05-Nov-20	N030-50318-0416	11080	269	Y	Y	1	0	1	1	30	2	0	0	0	0	0	0	0	1133	935	946	0	1	53	941
25-Jun-20	N030-50185-0656	10811	228	Y	Y	1	0	2	0	9	0	0	0	0	0	0	0	0	1186	957	906	0	1	54	1023
14-Feb-20	N030-50056-0437	10583	245	Y	Y	1	1	2	0	17	1	0	0	0	0	0	0	0	1208	1019	944	0	1	59	1013
21-Oct-19	N030-49305-0342	10338	332	Y	Y	2	0	1	1	15	1	0	0	0	0	0	0	0	1318	1021	1044	0	2	62	1098

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
05-Nov-20	N030-50318-0416	11080	269	PETRO-CAN	DURON HP	15W-40	Y	Y	11.7	83.2	133	27	14	20	7	N	N	1.03
25-Jun-20	N030-50185-0656	10811	228	PETRO-CAN	DURON HP	15W-40	Y	Y	10.4	67.8	140	15	13	18	5	N	N	0.88
14-Feb-20	N030-50056-0437	10583	245	PETRO-CAN	DURON HP	10W-30	Y	Y	12.0	85.1	135	16	13	18	6	N	N	
21-Oct-19	N030-49305-0342	10338	332	PETRO-CAN	DURON HP	15W-40	Y	Y	12.7	92.6	134	22	14	19	6	N	N	

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
05-Nov-20	N030-50318-0416	Y	Y	N
25-Jun-20	N030-50185-0656	Y	Y	N
14-Feb-20	N030-50056-0437	Y	Y	N
21-Oct-19	N030-49305-0342	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

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 a component thereof.

CONTACT INFORMATION

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 BOX 70 - 100 Mill Rd
 NAKUSP, BC
 V0G 1R0
 PHONE: 2502654100
 FAX: 2502653831
 Email:

Interp By: Greg Eyre

EQUIPMENT

EQUIP NUM: SK627
 SERIAL NUMBER: 54500965
 MODEL : 545C
 MANUFACTURER : CAT
 COMPANY NAME : GALENA CONTRACTORS LTD
 JOB SITE :
 AREA:
 REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : TRANSMISSION POWER SHIFT
 COMP SERIAL NUM:
 COMPARTMENT MODEL :
 LABEL#: 200441232
 SHOP JOB NUM :
 SAMPLE TYPE: OIL
 SAMPLE SHIP TIME (days) : 11
 SAMPLE LOCATION :

Monitor Compartment

ELEVATED SILICON AND IRON MAY BE SOURCED TO CLUTCH MATERIAL. ISO CODE IS INCREASED. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL. EXAMINE THE OIL, INSPECT ANY SCREEN(S)/ OIL FILTER(S) FOR LARGE VISIBLE METAL/ NON-METAL DEBRIS.

LAB #

N030-50259-0577

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
04-Sep-20	N030-50259-0577	10910	1210	Y	Y	6	1	14	3	41	0	0	17	0	0	0	0	0	1175	2794	13	0	1	1	981
12-Mar-19	N030-49077-1038	9787	1	N	N	6	1	11	1	6	0	1	2	0	0	0	0	0	1191	2736	16	0	2	1	952
26-Feb-19	N030-49063-0291	9786	768	Y	Y	8	0	10	0	5	0	0	1	0	0	0	0	0	1228	2694	16	0	2	0	1005
28-Jun-18	N030-48190-0488	9018	486	Y	Y	14	1	5	2	16	0	2	13	0	0	0	0	0	1229	2769	7	1	2	0	1000

*1210 HRS
 - After 1000 HRS
 - Trans Blue
 up SMDTM*

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
04-Sep-20	N030-50259-0577	10910	1210	PETRO-CAN	PRODURO	30	Y	Y	10.5	86.7	104	0	5	18	4	N
12-Mar-19	N030-49077-1038	9787	1	CAT	TDTO	30	N	N	10.4	88.6	99	0	4	17	3	N
26-Feb-19	N030-49063-0291	9786	768	CAT	TDTO	30	Y	Y	10.8	88.8	106	0	4	17	3	N
28-Jun-18	N030-48190-0488	9018	486	CAT	TDTO	30	Y	Y	10.2	83.5	103	0	6	19	4	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	ISO	4µ	6µ	10µ	14µ	18µ	21µ	38µ	50µ	W
04-Sep-20	N030-50259-0577	Y	Y	23/22/15	73331	26364	1129	208	91	54	4	2	N
12-Mar-19	N030-49077-1038	N	N	22/18/12	39268	1559	71	25	13	7	1	0	N
26-Feb-19	N030-49063-0291	Y	Y	22/16/11	27992	544	58	13	5	3	0	0	N
28-Jun-18	N030-48190-0488	Y	Y	23/21/16	64725	18727	1385	377	132	71	10	4	N

*Trans Filter
 Done @ 10006 HRS
 Last 10000 HRS sent
 July 17/19
 with about 1000
 oil only 1000 HRS
 out should have*

A = Antifreeze, Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, ISO = ISO Rating, 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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CONTACT INFORMATION

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 NAKUSP, BC
 V0G 1R0
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 FAX: 2502653831
 Email:

Interp By: Peter Leggo

EQUIPMENT

EQUIP NUM: SK-627
 SERIAL NUMBER: 54500965
 MODEL : 545C
 MANUFACTURER : CAT
 COMPANY NAME : GALENA CONTRACTORS LTD
 JOB SITE :
 AREA:
 REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
 COMP SERIAL NUM:
 COMPARTMENT MODEL : C7_CAT
 LABEL#: 200313414
 SHOP JOB NUM :
 SAMPLE TYPE: OIL
 SAMPLE SHIP TIME (days) : 8
 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 #

N030-50185-0656

 PROCESS 7/3/2020
 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
25-Jun-20	N030-50185-0656	10811	228	Y	Y	1	0	2	0	9	0	0	0	0	0	0	0	0	1186	957	906	0	1	54	1023
14-Feb-20	N030-50056-0437	10583	245	Y	Y	1	1	2	0	17	1	0	0	0	0	0	0	0	1208	1019	944	0	1	59	1013
21-Oct-19	N030-49305-0342	10338	332	Y	Y	2	0	1	1	15	1	0	0	0	0	0	0	0	1318	1021	1044	0	2	62	1098
09-Jul-19	N030-49200-0228	10006	150	Y	Y	1	0	2	0	13	1	1	0	0	0	0	0	0	1370	1143	1138	0	2	63	1086

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
25-Jun-20	N030-50185-0656	10811	228	PETRO-CAN	DURON HP	15W-40	Y	Y	10.4	67.8	140	15	13	18	5	N	N	0.88
14-Feb-20	N030-50056-0437	10583	245	PETRO-CAN	DURON HP	10W-30	Y	Y	12.0	85.1	135	16	13	18	6	N	N	
21-Oct-19	N030-49305-0342	10338	332	PETRO-CAN	DURON HP	15W-40	Y	Y	12.7	92.6	134	22	14	19	6	N	N	
09-Jul-19	N030-49200-0228	10006	150	PETRO-CAN	DURON HP	15W-40	Y	Y	12.0	81.2	142	22	14	19	6	N	N	0.82

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
25-Jun-20	N030-50185-0656	Y	Y	N
14-Feb-20	N030-50056-0437	Y	Y	N
21-Oct-19	N030-49305-0342	Y	Y	N
09-Jul-19	N030-49200-0228	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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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

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

EQUIPMENT

CUSTOMER EQUIP NUM : SK-627
 SERIAL NUMBER : 54500965
 MODEL : 545C
 MANUFACTURER : CAT
 COMPANY NAME : GALENA CONTRACTORS LTD
 JOB SITE :
 AREA:
 REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
 COMP SERIAL NUM :
 COMPARTMENT MODEL : C7_CAT
 LABEL#: 200322198
 SHOP JOB NUM :
 SAMPLE TYPE : OIL
 SAMPLE SHIP TIME (days) : 11
 SAMPLE LOCATION :

Interp By: Peter Lewandowski

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 #

N030-50056-0437

PROCESS 2/25/2020
 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
14-Feb-20	N030-50056-0437	10583	245	Y	Y	1	1	2	0	17	1	0	0	0	0	0	0	0	1208	1019	944	0	1	59	1013
21-Oct-19	N030-49305-0342	10338	332	Y	Y	2	0	1	1	15	1	0	0	0	0	0	0	0	1318	1021	1044	0	2	62	1098
09-Jul-19	N030-49200-0228	10006	150	Y	Y	1	0	2	0	13	1	1	0	0	0	0	0	0	1370	1143	1138	0	2	63	1086
23-Apr-19	N030-49120-0415	9857	244	Y	Y	2	1	2	1	24	1	0	0	0	0	0	0	0	1301	1114	975	0	8	66	1072

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
14-Feb-20	N030-50056-0437	10583	245	PETRO-CAN	DURON HP	10W-30	Y	Y	12.0	85.1	135	16	13	18	6	N	N	
21-Oct-19	N030-49305-0342	10338	332	PETRO-CAN	DURON HP	15W-40	Y	Y	12.7	92.6	134	22	14	19	6	N	N	
09-Jul-19	N030-49200-0228	10006	150	PETRO-CAN	DURON HP	15W-40	Y	Y	12.0	81.2	142	22	14	19	6	N	N	0.62
23-Apr-19	N030-49120-0415	9857	244	PETRO-CAN	DURON HP	15W-40	Y	Y	10.5	69.5	138	26	14	19	6	N	N	0.61

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	W
14-Feb-20	N030-50056-0437	Y	Y	N
21-Oct-19	N030-49305-0342	Y	Y	N
09-Jul-19	N030-49200-0228	Y	Y	N
23-Apr-19	N030-49120-0415	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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