

**ENGINE**

**EQUIP NUM: FB639**

**SERIAL NUMBER: 85523229**

**N030-53226-0107**

LABEL#: 201414300

SAMPLE SHIP TIME (days) : 13

**GALENA CONTRACTORS**

**LTD**

RECEIVED DATE: 14-Aug-23

**TIGERCAT 855 - FIAT 6.7L**



**No Action Required**

**Interp By: Peter Lewandowski**

**Interpreted On: 16-Aug-23**

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

**SAMPLE INFORMATION**

	01-Aug-23	09-Jun-23	13-Apr-23	03-Feb-23
Sampled Date	01-Aug-23	09-Jun-23	13-Apr-23	03-Feb-23
Sample Id	N030-53226-0107	N030-53170-0230	N030-53109-0219	N030-53044-1210
Lab Date	14-Aug-23	19-Jun-23	19-Apr-23	13-Feb-23
Meter [Hr]	6840	6588	6338	6077
Comp Meter [Hr]	6840	6588	6338	6077
Meter On Fluid	252	250	261	288
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	15W-40	10W-30	10W-30
Fluid Type	DURON HP	DURON HP	DURON HP	DURON HP
Oil Change	Y	Y	Y	Y
Water Change	Y	Y	Y	Y
Kidney Loop	U	U	U	U

**CONDITION / CONTAMINATION**

		01-Aug-23	09-Jun-23	13-Apr-23	03-Feb-23
<b>VISCOSITY (Centistokes)</b>					
V100	Viscosity at 100 C	15.20	13.80	12.30	13.30

		01-Aug-23	09-Jun-23	13-Apr-23	03-Feb-23
<b>VISCOSITY (Centistokes)</b>					
V40	Viscosity at 40 C	116.5	101.1	84.60	97.80

		01-Aug-23	09-Jun-23	13-Apr-23	03-Feb-23
<b>VISCOSITY INDEX</b>					
VI	Viscosity Index	136	138	141	135

		01-Aug-23	09-Jun-23	13-Apr-23	03-Feb-23
<b>INFRARED (UFM)</b>					
ST	Soot	9	9	6	7
OXI	Oxidation	20	23	24	25
SUL	Sulfur Products	23	25	25	26
NIT	Nitration	9	10	11	11

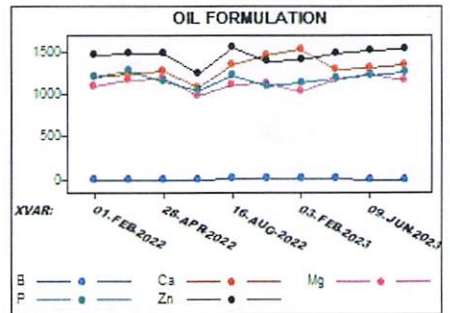
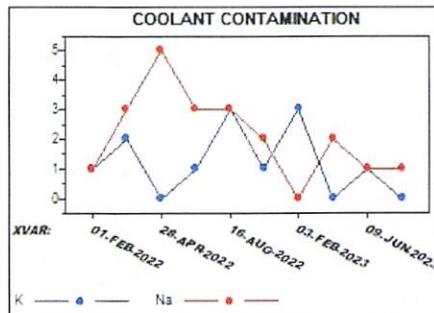
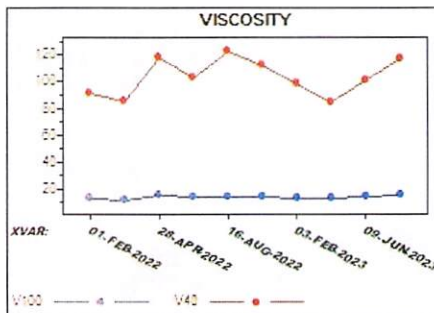
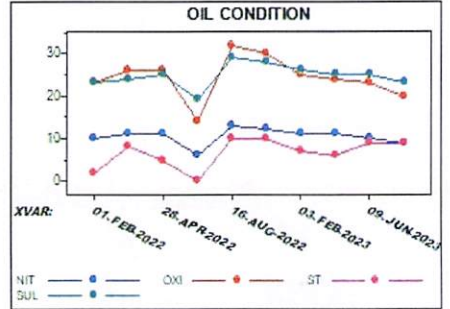
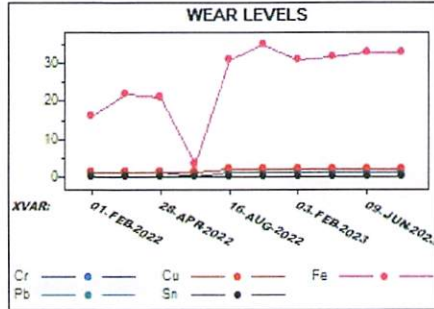
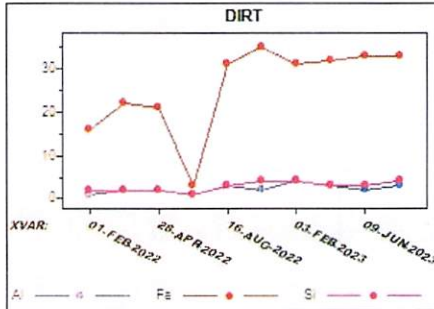
		01-Aug-23	09-Jun-23	13-Apr-23	03-Feb-23
<b>ANTIFREEZE</b>					
A	Antifreeze	N	N	N	N

		01-Aug-23	09-Jun-23	13-Apr-23	03-Feb-23
<b>FUEL</b>					
F	Fuel	N	N	N	N

		01-Aug-23	09-Jun-23	13-Apr-23	03-Feb-23
<b>WATER</b>					
W	Water	N	N	N	N

**WEAR LEVELS / ADDITIVES**

		01-Aug-23	09-Jun-23	13-Apr-23	03-Feb-23
<b>ELEMENTAL ANALYSIS (ppm)</b>					
Na	Sodium	1	1	2	0
K	Potassium	0	1	0	3
Si	Silicon	4	3	3	4
Al	Aluminum	3	2	3	4
Fe	Iron	33	33	32	31
Cr	Chromium	1	1	1	1
Pb	Lead	0	0	0	0
Cu	Copper	2	2	2	2
Sn	Tin	0	0	0	0
Ni	Nickel	1	1	0	0
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1525	1514	1485	1404
Ca	Calcium	1354	1306	1302	1539
Mg	Magnesium	1166	1245	1172	1033
Ba	Barium	0	0	0	0
B	Boron	0	1	2	12
Mo	Molybdenum	71	76	76	70
P	Phosphorus	1252	1225	1190	1124



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.

SAMPLE ACTIVITIES

--Choose activity--

New



In Progress



Close



N030-53170-0230

Sampled Date: 09-Jun-2023

Label No.: 201162255

Activity: None

Missing Info: -

Attachments: No records.

Barcode: -

Created By:

Created On: 08-Jun-2023

Sampled By:

✓ On 20-Jun-2023

Location:

Notes:

ASSET INFORMATION

Asset Serial Number: 85523229

Component: ENGINE

Component Serial Number:

Asset ID: FB639

Meter Reading: 6588 HR

Work Order No:

Manufacturer & Model: TIGERCAT 855

Customer: GALENA CONTRACTORS LTD

Jobsite:

FLUID INFORMATION

Calculated Meter on Fluid: 250 HR

Fluid Change: Yes

Meter on Fluid: 250 HR

Component Meter: 6588 HR

Filter Change: Yes

Fluid Brand / Fluid Type: PETRO-CAN/DURON HP

Kidney Loop: Unknown

Fluid Weight: 15W-40

Makeup Fluid:

RECOMMENDATION

**OIL Sample**

Reported on: 20-Jun-2023

Reported by: BORELLS

Report distributed on: 20-Jun-2023

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

History ()

Activity Log ()

Full Activity Log ()

Attachments ()

▼ LAB INFORMATION

SAMPLED DA...	LAB NO.	HEALTH	STATUS	METER	METER ON F...	FILTER
09-Jun-2023	N030-53170-0230	✓	New	6588	250	Yes
13-Apr-2023	N030-53109-0219	✓	New	6338	261	Yes
03-Feb-2023	N030-53044-1210	✓	New	6077	288	Yes
05-Dec-2022	N030-52349-0878	✓	New	5789	291	Yes
16-Aug-2022	N030-52242-0177	✓	New	5498	254	Yes

▼ INTERPRETATION

SAMPLED DA...	INTERP. TEXT
09-Jun-2023	DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THI
13-Apr-2023	DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THI
03-Feb-2023	DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THI
05-Dec-2022	DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THI
16-Aug-2022	DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THI

▼ WEAR METALS

Sampled Date	Cu	Fe	Cr	Pb	Sn	Si	Al	
09-Jun-2023	2	33	1	0	0	3	2	1
13-Apr-2023	2	32	1	0	0	3	3	0
03-Feb-2023	2	31	1	0	0	4	4	0
05-Dec-2022	2	35	1	0	0	4	2	1
16-Aug-2022	2	31	1	0	0	3	3	1

▼ ADDITIVES / FORMULATION

Sampled Date	V100	V40	VI	Ca	Si	Mo	P	
09-Jun-2023	13.80	101.1	138	1306	3	76	1225	1514
13-Apr-2023	12.30	84.60	141	1302	3	76	1190	1485
03-Feb-2023	13.30	97.80	135	1539	4	70	1124	1404
05-Dec-2022	13.80	111.7	123	1450	4	71	1098	1395
16-Aug-2022	14.40	122.3	118	1349	3	71	1219	1541

CONTAMINANTS

Sampled Date	W	A	F	Na	K	B	Si
09-Jun-2023	N	N	N	1	1	1	3
13-Apr-2023	N	N	N	2	0	2	3
03-Feb-2023	N	N	N	0	3	12	4
05-Dec-2022	N	N	N	2	1	16	4
16-Aug-2022	N	N	N	3	3	2	3

OIL CONDITION

Sampled Date	ST	OXI
09-Jun-2023	9	23
13-Apr-2023	6	24
03-Feb-2023	7	25
05-Dec-2022	10	30
16-Aug-2022	10	32

[Show more results...](#)

**ENGINE**

**EQUIP NUM: FB639**  
**TIGERCAT 855 - FIAT 6.7L**

**SERIAL NUMBER: 85523229**

**N030-53109-0219**  
LABEL#: 201316114  
SAMPLE SHIP TIME (days) : 6  
**GALENA CONTRACTORS**  
**LTD**  
RECEIVED DATE: 19-Apr-23

 **No Action Required**

**Interp By: Gregory Scribner**  
**Interpreted On: 21-Apr-23**

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

**SAMPLE INFORMATION**

	13-Apr-23	03-Feb-23	05-Dec-22	16-Aug-22
Sampled Date	13-Apr-23	03-Feb-23	05-Dec-22	16-Aug-22
Sample Id	N030-53109-0219	N030-53044-1210	N030-52349-0878	N030-52242-0177
Lab Date	19-Apr-23	13-Feb-23	15-Dec-22	30-Aug-22
Meter [Hr]	6338	6077	5789	5498
Comp Meter [Hr]	6338	6077	5789	5498
Meter On Fluid	261	288	291	254
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-30	10W-30	10W-30	15W-40
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

**CONDITION / CONTAMINATION**

		13-Apr-23	03-Feb-23	05-Dec-22	16-Aug-22
<b>VISCOSITY (Centistokes)</b>					
V100	Viscosity at 100 C	12.30	13.30	13.80	14.40
<b>VISCOSITY (Centistokes)</b>					
V40	Viscosity at 40 C	84.60	97.80	111.7	122.3
<b>VISCOSITY INDEX</b>					
VI	Viscosity Index	141	135	123	118

**WEAR LEVELS / ADDITIVES**

		13-Apr-23	03-Feb-23	05-Dec-22	16-Aug-22
<b>ELEMENTAL ANALYSIS (ppm)</b>					
Na	Sodium	2	0	2	3
K	Potassium	0	3	1	3
Si	Silicon	3	4	4	3
Al	Aluminum	3	4	2	3
Fe	Iron	32	31	35	31
Cr	Chromium	1	1	1	1
Pb	Lead	0	0	0	0
Cu	Copper	2	2	2	2
Sn	Tin	0	0	0	0
Ni	Nickel	0	0	1	1
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1485	1404	1392	1543
Ca	Calcium	1302	1539	1450	1349
Mg	Magnesium	1172	1033	1129	1110
Ba	Barium	0	0	0	0
B	Boron	2	12	16	2
Mo	Molybdenum	76	70	71	71
P	Phosphorus	1190	1124	1098	1219

**INFRARED (UFM)**

		13-Apr-23	03-Feb-23	05-Dec-22	16-Aug-22
ST	Soot	6	7	10	10
OXI	Oxidation	24	25	30	32
SUL	Sulfur Products	25	26	28	29
NIT	Nitration	11	11	12	13

**ANTIFREEZE**

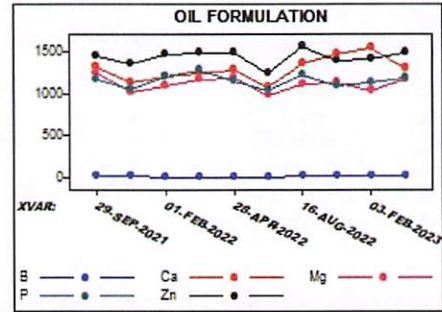
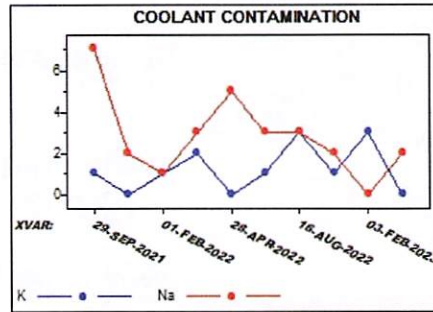
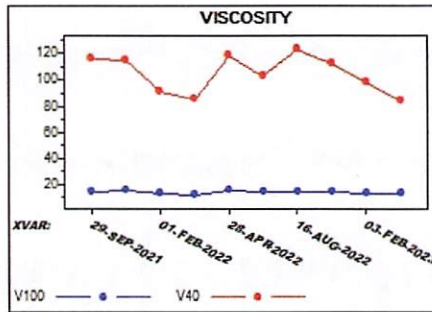
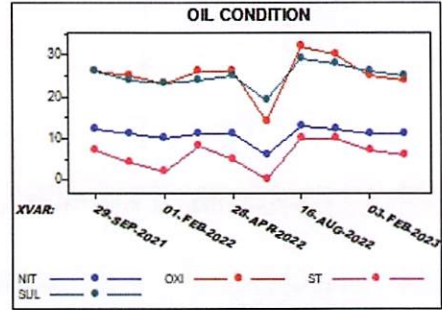
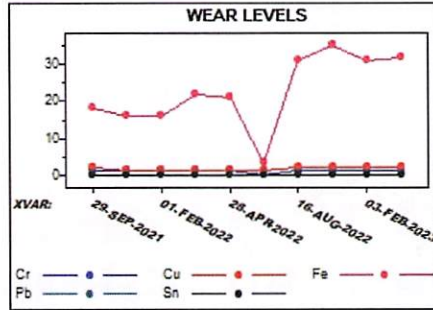
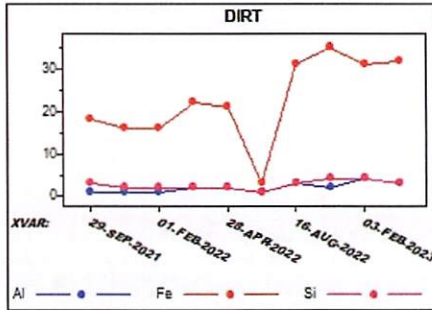
		13-Apr-23	03-Feb-23	05-Dec-22	16-Aug-22
A	Antifreeze	N	N	N	N

**FUEL**

		13-Apr-23	03-Feb-23	05-Dec-22	16-Aug-22
F	Fuel	N	N	N	N

**WATER**

		13-Apr-23	03-Feb-23	05-Dec-22	16-Aug-22
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**

**N030-53044-1210**

LABEL#: 201135204


SAMPLE SHIP TIME (days) : 10

**GALENA CONTRACTORS LTD**

RECEIVED DATE: 13-Feb-23

**EQUIP NUM: FB639**

**TIGERCAT 855 - FIAT 6.7L**

 **No Action Required**

**SERIAL NUMBER: 85523229**

**Interp By: Gregory Scribner**

**Interpreted On: 16-Feb-23**

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

**SAMPLE INFORMATION**

	03-Feb-23	05-Dec-22	16-Aug-22	11-May-22
Sampled Date	03-Feb-23	05-Dec-22	16-Aug-22	11-May-22
Sample Id	N030-53044-1210	N030-52349-0878	N030-52242-0177	N030-52139-0129
Lab Date	13-Feb-23	15-Dec-22	30-Aug-22	19-May-22
Meter [Hr]	6077	5789	5498	5494
Comp Meter [Hr]	6077	5789	5498	5494
Meter On Fluid	288	291	254	250
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-30	10W-30	15W-40	15W-40
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

**CONDITION / CONTAMINATION**

		03-Feb-23	05-Dec-22	16-Aug-22	11-May-22
<b>VISCOSITY (Centistokes)</b>					
V100	Viscosity at 100 C	13.30	13.80	14.40	13.70
<b>VISCOSITY (Centistokes)</b>					
V40	Viscosity at 40 C	97.80	111.7	122.3	102.6
<b>VISCOSITY INDEX</b>					
VI	Viscosity Index	135	123	118	134

**WEAR LEVELS / ADDITIVES**

		03-Feb-23	05-Dec-22	16-Aug-22	11-May-22
<b>ELEMENTAL ANALYSIS (ppm)</b>					
Na	Sodium	0	2	3	3
K	Potassium	3	1	3	1
Si	Silicon	4	4	3	1
Al	Aluminum	4	2	3	1
Fe	Iron	31	35	31	3
Cr	Chromium	1	1	1	0
Pb	Lead	0	0	0	0
Cu	Copper	2	2	2	1
Sn	Tin	0	0	0	0
Ni	Nickel	0	1	1	1
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1404	1392	1543	1243
Ca	Calcium	1539	1450	1349	1079
Mg	Magnesium	1033	1129	1110	976
Ba	Barium	0	0	0	0
B	Boron	12	16	2	1
Mo	Molybdenum	70	71	71	58
P	Phosphorus	1124	1098	1219	1044

**INFRARED (UFM)**

		03-Feb-23	05-Dec-22	16-Aug-22	11-May-22
ST	Soot	7	10	10	0
OXI	Oxidation	25	30	32	14
SUL	Sulfur Products	26	28	29	19
NIT	Nitration	11	12	13	6

**ANTIFREEZE**

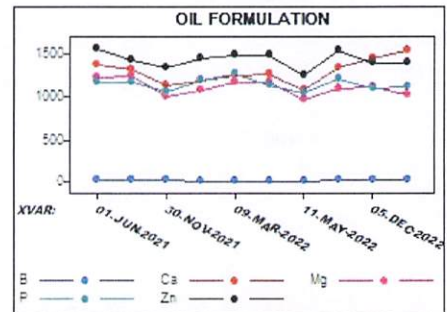
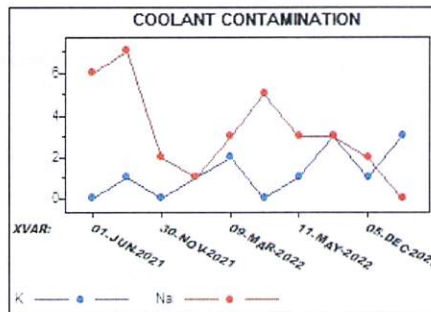
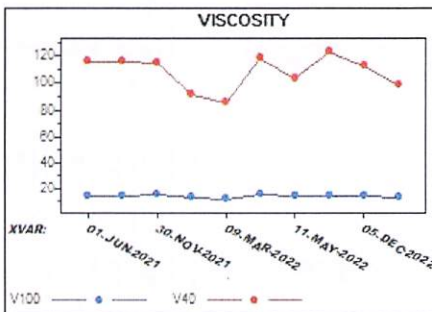
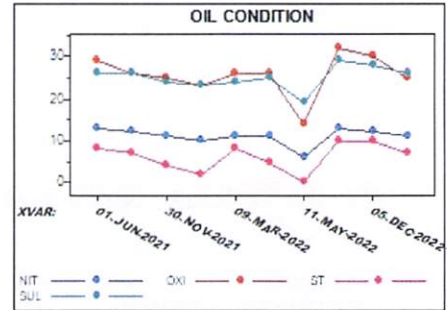
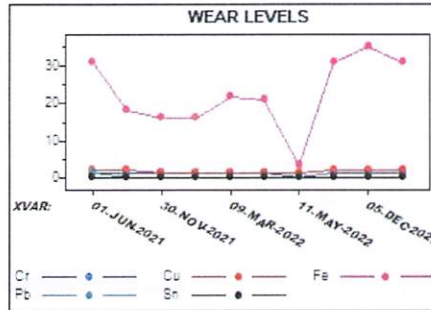
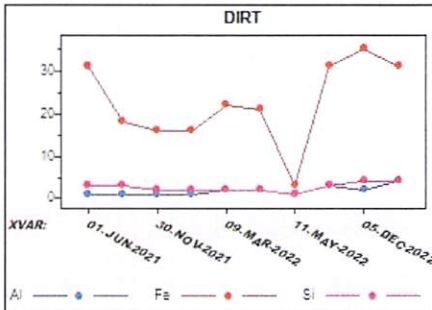
		03-Feb-23	05-Dec-22	16-Aug-22	11-May-22
A	Antifreeze	N	N	N	N

**FUEL**

		03-Feb-23	05-Dec-22	16-Aug-22	11-May-22
F	Fuel	N	N	N	N

**WATER**

		03-Feb-23	05-Dec-22	16-Aug-22	11-May-22
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.

**HYDRAULIC SYSTEM**

**N030-53044-1211**  
 LABEL#: 201173059  
 SAMPLE SHIP TIME (days) : 10  
**GALENA CONTRACTORS**  
**LTD**  
 RECEIVED DATE: 13-Feb-23

**EQUIP NUM: FB639**  
**TIGERCAT 855**  
 **No Action Required**

**SERIAL NUMBER: 85523229**

**Interp By: Gregory Scribner**  
**Interpreted On: 16-Feb-23**

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

**SAMPLE INFORMATION**

	03-Feb-23	16-Mar-21
Sampled Date	03-Feb-23	16-Mar-21
Sample Id	N030-53044-1211	N030-51109-0142
Lab Date	13-Feb-23	19-Apr-21
Meter [Hr]	6077	3268
Comp Meter [Hr]	6077	3268
Meter On Fluid	2656	3268
Fluid Brand	OTHER	
Fluid Weight	46-ISO	46-ISO
Fluid Type	HYDREX AW	AW
Fluid Change	Y	N
Filter Change	Y	Y
Widney Loop	U	U

**CONDITION / CONTAMINATION**

		03-Feb-23	16-Mar-21
<b>VISCOSITY (Centistokes)</b>			
V100	Viscosity at 100 C	7.100	6.2

		03-Feb-23	16-Mar-21
<b>VISCOSITY (Centistokes)</b>			
V40	Viscosity at 40 C	44.30	37.4

		03-Feb-23	16-Mar-21
<b>VISCOSITY INDEX</b>			
VI	Viscosity Index	120	113

		03-Feb-23	16-Mar-21
<b>INFRARED (UFM)</b>			
ST	Soot	0	0
OXI	Oxidation	4	7
SUL	Sulfur Products	12	15
NIT	Nitration	2	2

		03-Feb-23	16-Mar-21
<b>ANTIFREEZE</b>			
A	Antifreeze	N	N

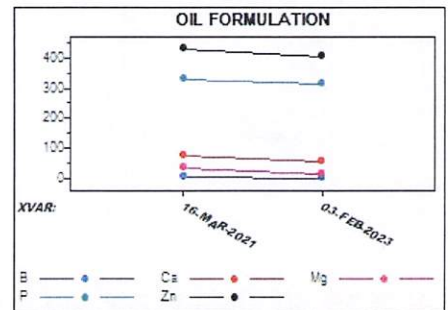
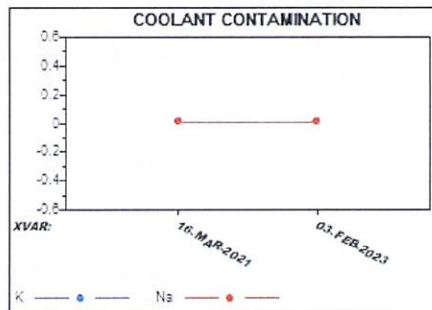
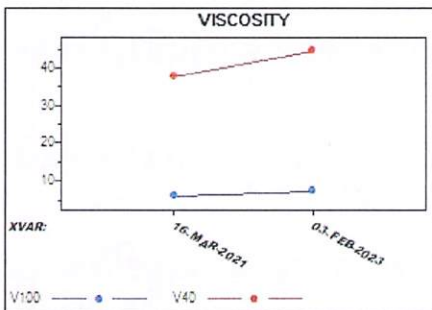
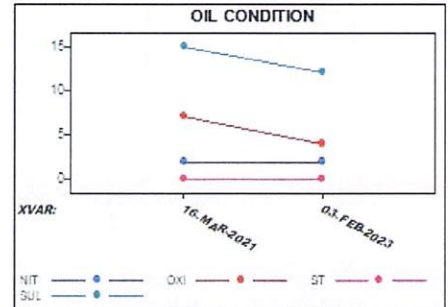
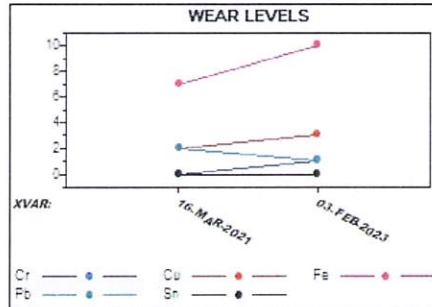
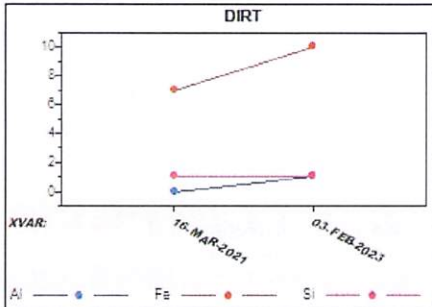
		03-Feb-23	16-Mar-21
<b>WATER</b>			
W	Water	N	N

**CLEANLINESS**

		03-Feb-23	16-Mar-21
<b>PARTICLE COUNT</b>			
ISO	ISO Code Rating	22/18/13	21/17/13
4µ	4µ	24356	13028
6µ	6µ	2248	831
10µ	10µ	195	97
14µ	14µ	73	42
18µ	18µ	39	26
21µ	21µ	27	21
38µ	38µ	6	9
50µ	50µ	3	6

**WEAR LEVELS / ADDITIVES**

		03-Feb-23	16-Mar-21
<b>ELEMENTAL ANALYSIS (ppm)</b>			
Na	Sodium	0	0
K	Potassium	0	0
Si	Silicon	1	1
Al	Aluminum	1	0
Fe	Iron	10	7
Cr	Chromium	1	0
Pb	Lead	1	2
Cu	Copper	3	2
Sn	Tin	0	0
Ni	Nickel	0	0
Ag	Silver	0	0
Ti	Titanium	0	0
V	Vanadium	0	0
Zn	Zinc	405	428
Ca	Calcium	52	72
Mg	Magnesium	11	31
Ba	Barium	0	0
B	Boron	0	1
Mo	Molybdenum	1	2
P	Phosphorus	311	329



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**

N030-52242-0177

LABEL#: 201042096

SAMPLE SHIP TIME (days) : 14


**GALENA CONTRACTORS**

**LTD**

RECEIVED DATE: 30-Aug-22

**EQUIP NUM: FB639**

**TIGERCAT 855 - FIAT 6.7L**

 **No Action Required**

**SERIAL NUMBER: 85523229**

**Interp By: Greg Eyre**

**Interpreted On: 31-Aug-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**

	16-Aug-22	11-May-22	28-Apr-22	09-Mar-22
Sampled Date	16-Aug-22	11-May-22	28-Apr-22	09-Mar-22
Sample Id	N030-52242-0177	N030-52139-0129	N030-52129-0910	N030-52080-0235
Lab Date	30-Aug-22	19-May-22	09-May-22	21-Mar-22
Meter [Hr]	5498	5494	5244	4964
Comp Meter [Hr]	5498	5494	5244	4964
Meter On Fluid	254	250	280	278
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	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

**CONDITION / CONTAMINATION**

		16-Aug-22	11-May-22	28-Apr-22	09-Mar-22
<b>VISCOSITY (Centistokes)</b>					
V100	Viscosity at 100 C	14.40	13.70	15.10	12.10
<b>VISCOSITY (Centistokes)</b>					
V40	Viscosity at 40 C	122.3	102.6	118.0	85.50
<b>VISCOSITY INDEX</b>					
VI	Viscosity Index	118	134	133	136

**WEAR LEVELS / ADDITIVES**

	16-Aug-22	11-May-22	28-Apr-22	09-Mar-22	
<b>ELEMENTAL ANALYSIS (ppm)</b>					
Na	Sodium	3	3	5	3
K	Potassium	3	1	0	2
Si	Silicon	3	1	2	2
Al	Aluminum	3	1	2	2
Fe	Iron	31	3	21	22
Cr	Chromium	1	0	1	1
Pb	Lead	0	0	0	0
Cu	Copper	2	1	1	1
Sn	Tin	0	0	0	0
Ni	Nickel	1	1	0	0
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Zn	Zinc	1543	1243	1484	1484
Ca	Calcium	1349	1079	1274	1243
Mg	Magnesium	1110	976	1181	1172
Ba	Barium	0	0	0	0
B	Boron	2	1	1	0
Mo	Molybdenum	71	58	75	76
P	Phosphorus	1219	1044	1144	1269

**INFRARED (UFM)**

		16-Aug-22	11-May-22	28-Apr-22	09-Mar-22
ST	Soot	10	0	5	8
OXI	Oxidation	32	14	26	26
SUL	Sulfur Products	29	19	25	24
NIT	Nitration	13	6	11	11

**ANTIFREEZE**

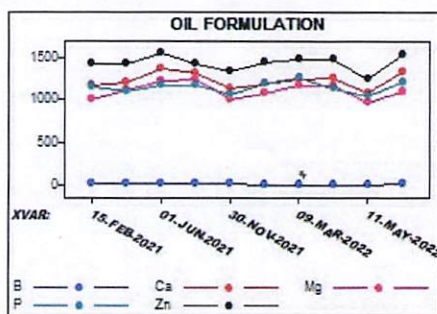
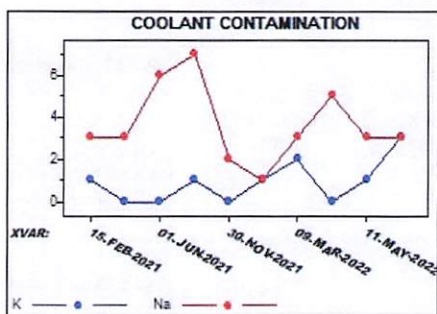
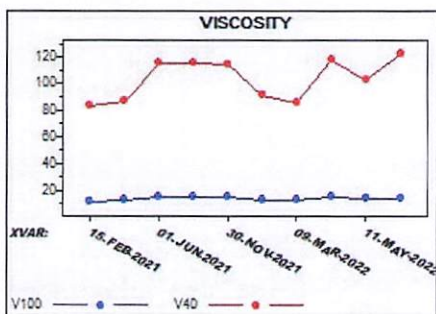
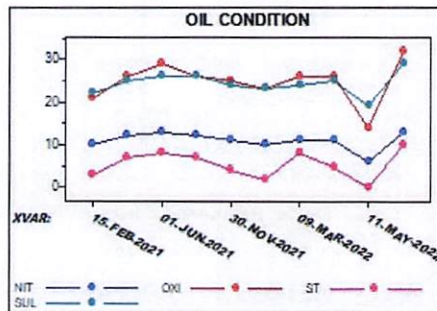
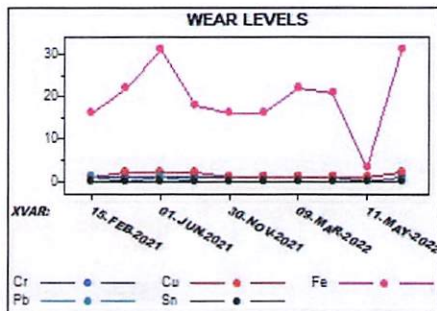
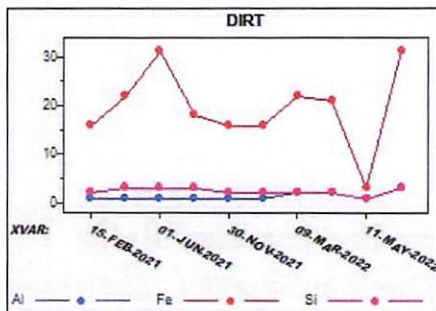
		16-Aug-22	11-May-22	28-Apr-22	09-Mar-22
A	Antifreeze	N	N	N	N

**FUEL**

		16-Aug-22	11-May-22	28-Apr-22	09-Mar-22
F	Fuel	N	N	N	N

**WATER**

		16-Aug-22	11-May-22	28-Apr-22	09-Mar-22
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**

**N030-52139-0129**

LABEL#: 200911767

SAMPLE SHIP TIME (days) : 8

**GALENA CONTRACTORS**

**LTD**

RECEIVED DATE: 19-May-22

**EQUIP NUM: FB639**

**TIGERCAT 855 - FIAT 6.7L**

 **No Action Required**

**SERIAL NUMBER: 85523229**

**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	28-Apr-22	09-Mar-22	01-Feb-22
Sampled Date	11-May-22	28-Apr-22	09-Mar-22	01-Feb-22
Sample Id	N030-52139-0129	N030-52129-0910	N030-52080-0235	N030-52041-0104
Lab Date	19-May-22	09-May-22	21-Mar-22	10-Feb-22
Meter [Hr]	5494	5244	4964	4686
Comp Meter [Hr]	5494	5244	4964	4686
Meter On Fluid	250	280	278	256
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	15W-40	10W-30	10W-30
Fluid Type	DURON HP	DURON HP	DURON HP	DURON HP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	U
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**

11-May-22 28-Apr-22 09-Mar-22 01-Feb-22

**VISCOSITY (Centistokes)**

V100 Viscosity at 100 C 13.70 15.10 12.10 12.90

**VISCOSITY (Centistokes)**

V40 Viscosity at 40 C 102.6 118.0 85.50 91.40

**WEAR LEVELS / ADDITIVES**

11-May-22 28-Apr-22 09-Mar-22 01-Feb-22

**ELEMENTAL ANALYSIS (ppm)**

Na Sodium	3	5	3	1
K Potassium	1	0	2	1
Si Silicon	1	2	2	2
Al Aluminum	1	2	2	1
Fe Iron	3	21	22	16
Cr Chromium	0	1	1	1
Pb Lead	0	0	0	0
Cu Copper	1	1	1	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	1243	1484	1484	1452
Ca Calcium	1079	1274	1243	1202
Mg Magnesium	976	1181	1172	1092
Ba Barium	0	0	0	0
B Boron	1	1	0	1
Mo Molybdenum	58	75	76	69
P Phosphorus	1044	1144	1269	1196

**VISCOSITY INDEX**

VI Viscosity Index 134 133 136 139

**INFRARED (UFM)**

ST Soot	0	5	8	2
OXI Oxidation	14	26	26	23
SUL Sulfur Products	19	25	24	23
NIT Nitration	6	11	11	10

**ANTIFREEZE**

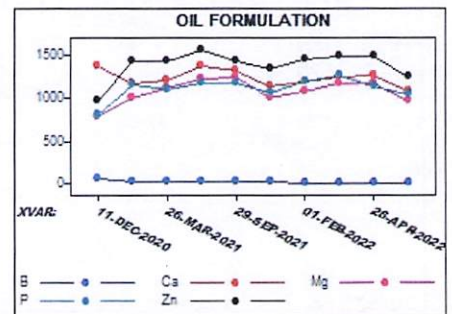
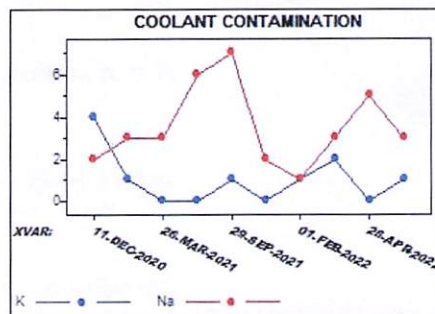
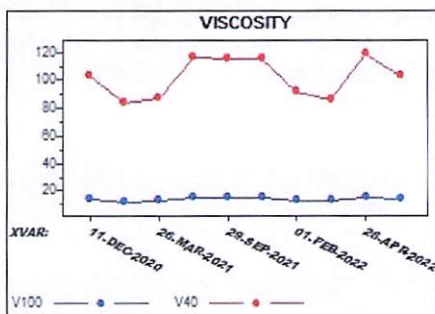
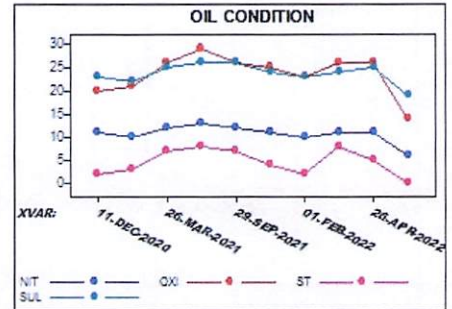
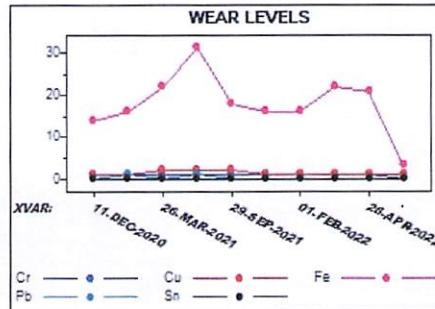
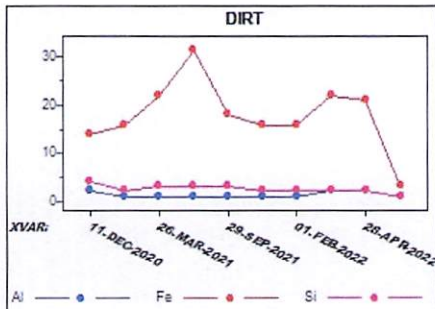
A Antifreeze N N N N

**FUEL**

F Fuel N N N N

**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.

ENGINE

EQUIP NUM: FB639

SERIAL NUMBER: 85523229

N030-52129-0910

LABEL#: 20091147

SAMPLE SHIP TIME (days) : 11

**GALENA CONTRACTORS**

LTD

RECEIVED DATE: 09-May-22

TIGERCAT 855 - FIAT 6.7L

 No Action Required

Interp By: Gregory Scribner

Interpreted On: 12-May-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**

	28-Apr-22	09-Mar-22	01-Feb-22	30-Nov-21
Sampled Date	28-Apr-22	09-Mar-22	01-Feb-22	30-Nov-21
Sample Id	N030-52129-0910	N030-52080-0235	N030-52041-0104	N030-51341-0664
Lab Date	09-May-22	21-Mar-22	10-Feb-22	07-Dec-21
Meter [Hr]	5244	4964	4686	4430
Comp Meter [Hr]	5244	4964	4686	4430
Meter On Fluid	280	278	256	269
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	10W-30	10W-30	15W-40
Fluid Type	DURON HP	DURON HP	DURON HP	DURON HP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	U	Y
Washdown 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**

	28-Apr-22	09-Mar-22	01-Feb-22	30-Nov-21
<b>VISCOSITY (Centistokes)</b>				
V100 Viscosity at 100 C	15.10	12.10	12.90	15.0
<b>VISCOSITY (Centistokes)</b>				
V40 Viscosity at 40 C	118.0	85.50	91.40	114.9

**WEAR LEVELS / ADDITIVES**

	28-Apr-22	09-Mar-22	01-Feb-22	30-Nov-21
<b>ELEMENTAL ANALYSIS (ppm)</b>				
Na Sodium	5	3	1	2
K Potassium	0	2	1	0
Si Silicon	2	2	2	2
Al Aluminum	2	2	1	1
Fe Iron	21	22	16	16
Cr Chromium	1	1	1	1
Pb Lead	0	0	0	0
Cu Copper	1	1	1	1
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	1484	1484	1452	1340
Ca Calcium	1274	1243	1202	1137
Mg Magnesium	1181	1172	1092	1018
Ba Barium	0	0	0	0
B Boron	1	0	1	2
Mo Molybdenum	75	76	69	62
P Phosphorus	1144	1269	1196	1062

**VISCOSITY INDEX**

VI Viscosity Index	133	136	139	135
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**INFRARED (UFM)**

ST Soot	5	8	2	4
OXI Oxidation	26	26	23	25
SUL Sulfur Products	25	24	23	24
NIT Nitration	11	11	10	11

**ANTIFREEZE**

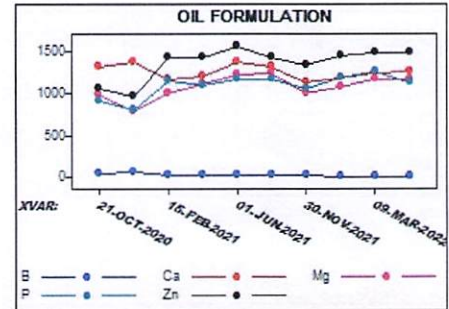
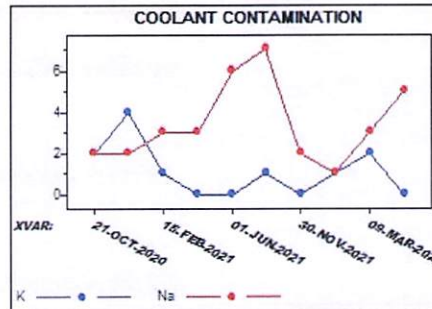
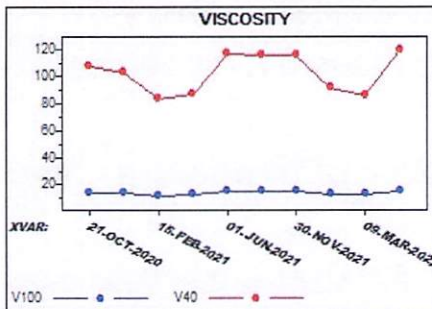
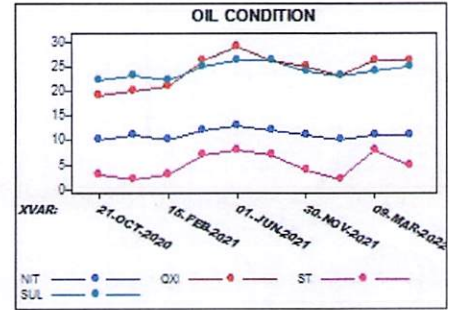
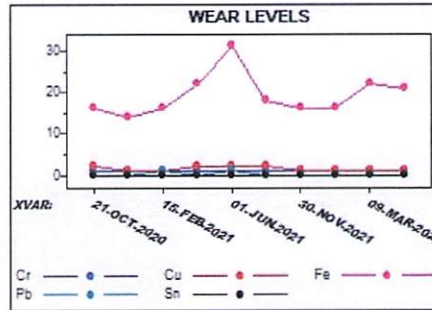
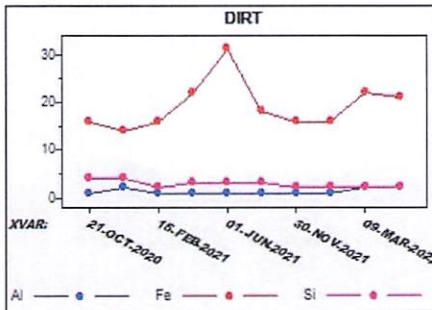
A Antifreeze	N	N	N	N
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**FUEL**

F Fuel	N	N	N	N
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**WATER**

W Water	N	N	N	N
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Report Comment

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**ENGINE**

**N030-52080-0235**  
 LABEL#: 200911943  
 SAMPLE SHIP TIME (days) : 12  
**GALENA CONTRACTORS**  
**LTD**  
 RECEIVED DATE: 21-Mar-22

**EQUIP NUM: FB639**  
**TIGERCAT 855 - FIAT 6.7L**  
 **No Action Required**

**SERIAL NUMBER: 85523229**

**Interp By: Fluid Interpreter**  
**Interpreted On: 21-Mar-22**

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

**SAMPLE INFORMATION**

	09-Mar-22	01-Feb-22	30-Nov-21	29-Sep-21
Sampled Date	09-Mar-22	01-Feb-22	30-Nov-21	29-Sep-21
Sample Id	N030-52080-0235	N030-52041-0104	N030-51341-0664	N030-51280-0564
Lab Date	21-Mar-22	10-Feb-22	07-Dec-21	07-Oct-21
Meter [Hr]	4964	4686	4430	4161
Comp Meter [Hr]	4964	4686	4430	4161
Meter On Fluid	278	256	269	256
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-30	10W-30	15W-40	15W-40
Fluid Type	DURON HP	DURON HP	DURON HP	DURON HP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	U	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.

**CONDITION / CONTAMINATION**

	09-Mar-22	01-Feb-22	30-Nov-21	29-Sep-21
<b>VISCOSITY (Centistokes)</b>				
V100 Viscosity at 100 C	12.10	12.90	15.0	14.5
<b>VISCOSITY (Centistokes)</b>				
V40 Viscosity at 40 C	85.50	91.40	114.9	115.5

**WEAR LEVELS / ADDITIVES**

	09-Mar-22	01-Feb-22	30-Nov-21	29-Sep-21
<b>ELEMENTAL ANALYSIS (ppm)</b>				
Na Sodium	3	1	2	7
K Potassium	2	1	0	1
Si Silicon	2	2	2	3
Al Aluminum	2	1	1	1
Fe Iron	22	16	16	18
Cr Chromium	1	1	1	1
Pb Lead	0	0	0	0
Cu Copper	1	1	1	2
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	1484	1452	1340	1437
Ca Calcium	1243	1202	1137	1317
Mg Magnesium	1172	1092	1018	1242
Ba Barium	0	0	0	0
B Boron	0	1	2	4
Mo Molybdenum	76	69	62	71
P Phosphorus	1269	1196	1062	1173

**VISCOSITY INDEX**

	09-Mar-22	01-Feb-22	30-Nov-21	29-Sep-21
VI Viscosity Index	136	139	135	128

**INFRARED (UFM)**

	09-Mar-22	01-Feb-22	30-Nov-21	29-Sep-21
ST Soot	8	2	4	7
OXI Oxidation	26	23	25	26
SUL Sulfur Products	24	23	24	26
NIT Nitration	11	10	11	12

**ANTIFREEZE**

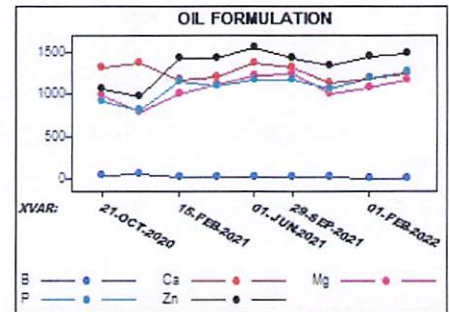
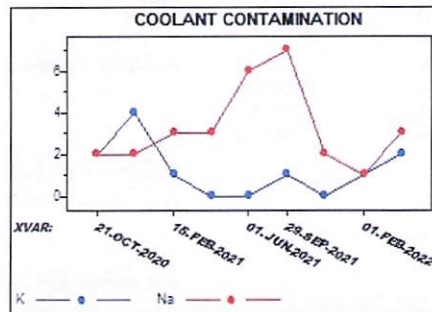
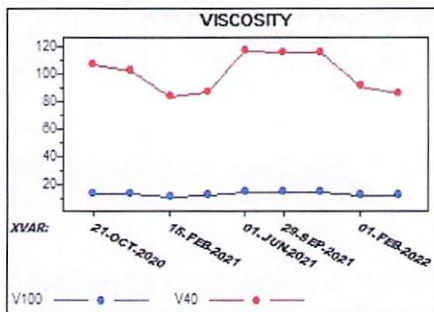
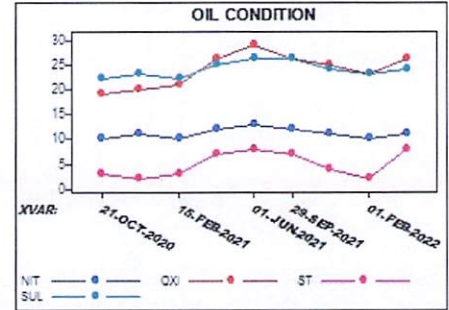
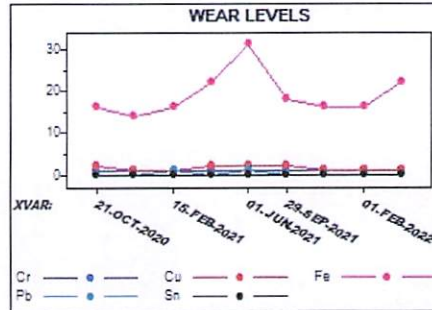
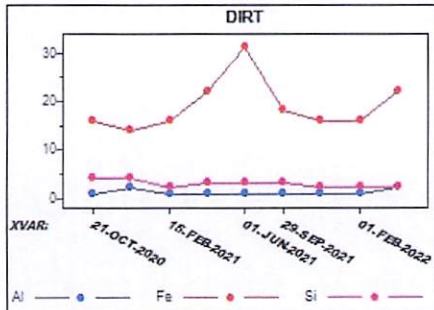
	09-Mar-22	01-Feb-22	30-Nov-21	29-Sep-21
A Antifreeze	N	N	N	N

**FUEL**

	09-Mar-22	01-Feb-22	30-Nov-21	29-Sep-21
F Fuel	N	N	N	N

**WATER**

	09-Mar-22	01-Feb-22	30-Nov-21	29-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](mailto:oilsupport@finning.com).

**ENGINE**

N030-52041-0104  
 LABEL#: 200853197  
 SAMPLE SHIP TIME (days) : 9  
**GALENA CONTRACTORS**  
**LTD**  
 RECEIVED DATE: 10-Feb-22

**EQUIP NUM: FB639**  
**TIGERCAT 855 - FIAT 6.7L**  
 **No Action Required**

**SERIAL NUMBER: 85523229**

**Interp By: Fluid Interpreter**  
**Interpreted On: 10-Feb-22**

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

**SAMPLE INFORMATION**

	01-Feb-22	30-Nov-21	29-Sep-21	01-Jun-21
Sampled Date	01-Feb-22	30-Nov-21	29-Sep-21	01-Jun-21
Sample Id	N030-52041-0104	N030-51341-0664	N030-51280-0564	N030-51161-0218
Lab Date	10-Feb-22	07-Dec-21	07-Oct-21	10-Jun-21
Meter [Hr]	4686	4430	4161	3638
Comp Meter [Hr]	4686	4430	4161	3638
Meter On Fluid	256	269	256	269
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-30	15W-40	15W-40	15W-40
Fluid Type	DURON HP	DURON HP	DURON HP	DURON HP
Fluid Change	Y	Y	Y	Y
Filter Change	U	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.

**CONDITION / CONTAMINATION**

	01-Feb-22	30-Nov-21	29-Sep-21	01-Jun-21
<b>VISCOSITY (Centistokes)</b>				
V100 Viscosity at 100 C	12.90	15.0	14.5	14.5
<b>VISCOSITY (Centistokes)</b>				
V40 Viscosity at 40 C	91.40	114.9	115.5	115.9

**WEAR LEVELS / ADDITIVES**

	01-Feb-22	30-Nov-21	29-Sep-21	01-Jun-21
<b>ELEMENTAL ANALYSIS (ppm)</b>				
Na Sodium	1	2	7	6
K Potassium	1	0	1	0
Si Silicon	2	2	3	3
Al Aluminum	1	1	1	1
Fe Iron	16	16	18	31
Cr Chromium	1	1	1	1
Pb Lead	0	0	0	1
Cu Copper	1	1	2	2
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	1452	1340	1437	1556
Ca Calcium	1202	1137	1317	1381
Mg Magnesium	1092	1018	1242	1223
Ba Barium	0	0	0	0
B Boron	1	2	4	2
Mo Molybdenum	69	62	71	78
P Phosphorus	1196	1062	1173	1175

**VISCOSITY INDEX**

VI Viscosity Index	139	135	128	127
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**INFRARED (UFM)**

ST Soot	2	4	7	8
OXI Oxidation	23	25	26	29
SUL Sulfur Products	23	24	26	26
NIT Nitration	10	11	12	13

**ANTIFREEZE**

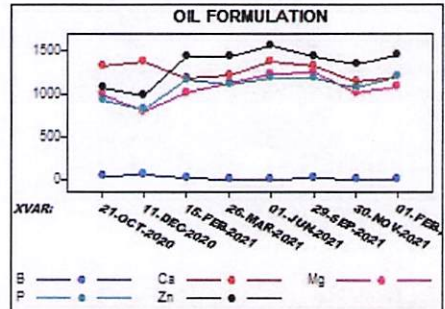
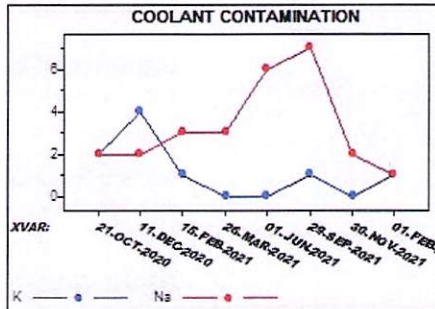
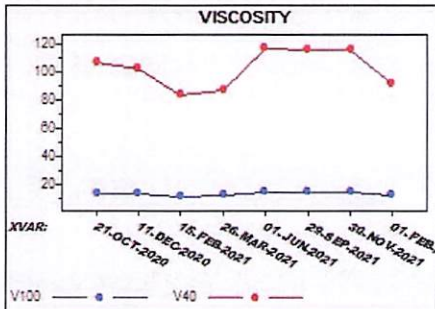
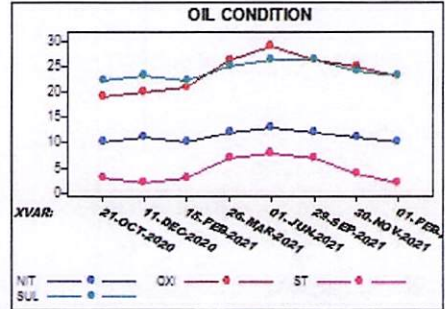
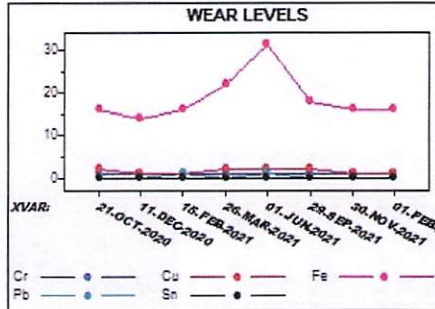
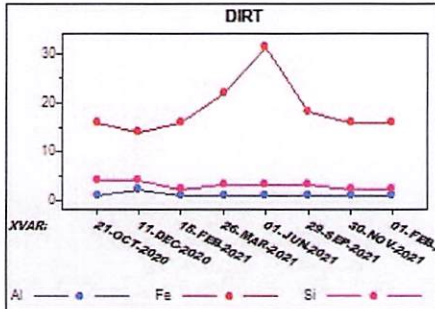
A Antifreeze	N	N	N	N
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**FUEL**

F Fuel	N	N	N	N
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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.

ENGINE

EQUIP NUM: FB639  
TIGERCAT 855 - FIAT 6.7L

SERIAL NUMBER: 85523229

N030-51341-0664  
LABEL#: 200752224  
SAMPLE SHIP TIME (days) : 7  
GALENA CONTRACTORS  
LTD  
RECEIVED DATE: 07-Dec-21

 No Action Required

Interp By: Fluid Interpreter  
Interpreted On: 08-Dec-21

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

**SAMPLE INFORMATION**

	30-Nov-21	29-Sep-21	01-Jun-21	26-Mar-21
Sampled Date	30-Nov-21	29-Sep-21	01-Jun-21	26-Mar-21
Sample Id	N030-51341-0664	N030-51280-0564	N030-51161-0218	N030-51095-0304
Lab Date	07-Dec-21	07-Oct-21	10-Jun-21	05-Apr-21
Meter [Hr]	4430	4161	3638	3361
Comp Meter [Hr]	4430	4161	3638	3361
Meter On Fluid	269	256	269	255
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	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
Drain 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. DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

**CONDITION / CONTAMINATION**

		30-Nov-21	29-Sep-21	01-Jun-21	26-Mar-21
<b>VISCOSITY (Centistokes)</b>					
V100	Viscosity at 100 C	15.0	14.5	14.5	12.4
<b>VISCOSITY (Centistokes)</b>					
V40	Viscosity at 40 C	114.9	115.5	115.9	86.9

**WEAR LEVELS / ADDITIVES**

	30-Nov-21	29-Sep-21	01-Jun-21	26-Mar-21
<b>ELEMENTAL ANALYSIS (ppm)</b>				
Na Sodium	2	7	6	3
K Potassium	0	1	0	0
Si Silicon	2	3	3	3
Al Aluminum	1	1	1	1
Fe Iron	16	18	31	22
Cr Chromium	1	1	1	1
Pb Lead	0	0	1	0
Cu Copper	1	2	2	2
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	1340	1437	1556	1431
Ca Calcium	1137	1317	1381	1205
Mg Magnesium	1018	1242	1223	1123
Ba Barium	0	0	0	0
B Boron	2	4	2	2
Mo Molybdenum	62	71	78	70
P Phosphorus	1062	1173	1175	1100

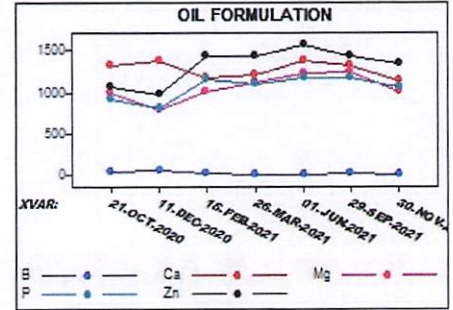
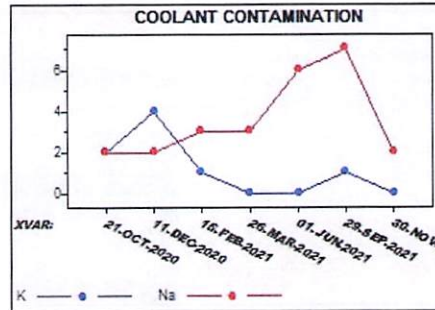
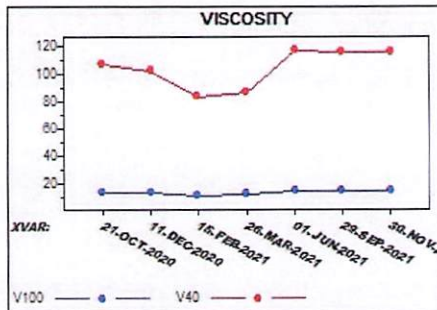
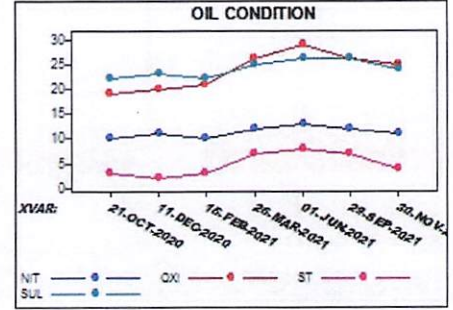
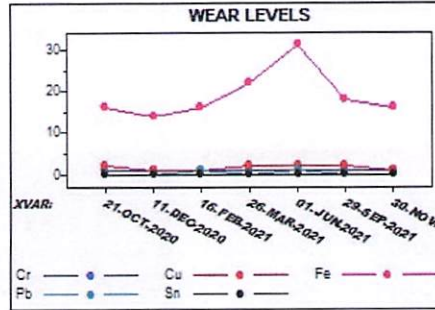
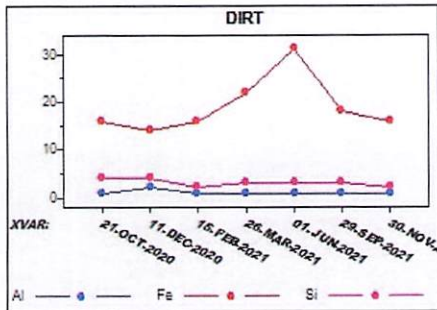
		30-Nov-21	29-Sep-21	01-Jun-21	26-Mar-21
<b>VISCOSITY INDEX</b>					
VI	Viscosity Index	135	128	127	138

		30-Nov-21	29-Sep-21	01-Jun-21	26-Mar-21
<b>INFRARED (UFM)</b>					
ST	Soot	4	7	8	7
OXI	Oxidation	25	26	29	26
SUL	Sulfur Products	24	26	26	25
NIT	Nitration	11	12	13	12

		30-Nov-21	29-Sep-21	01-Jun-21	26-Mar-21
<b>ANTIFREEZE</b>					
A	Antifreeze	N	N	N	N

		30-Nov-21	29-Sep-21	01-Jun-21	26-Mar-21
<b>FUEL</b>					
F	Fuel	N	N	N	N

		30-Nov-21	29-Sep-21	01-Jun-21	26-Mar-21
<b>WATER</b>					
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**

**N030-51280-0564**

LABEL#: 200756269

SAMPLE SHIP TIME (days) : 8


**GALENA CONTRACTORS**

LTD

RECEIVED DATE: 07-Oct-21

**EQUIP NUM: FB639**

**TIGERCAT 855 - FIAT 6.7L**

 **No Action Required**

**SERIAL NUMBER: 85523229**

**Interp By: Peter Lewandowski**

**Interpreted On: 08-Oct-21**

WEAR METAL ANALYSIS INDICATES ACCEPTABLE WEAR RATE. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL. DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

**SAMPLE INFORMATION**

	29-Sep-21	01-Jun-21	26-Mar-21	15-Feb-21
Sampled Date	29-Sep-21	01-Jun-21	26-Mar-21	15-Feb-21
Sample Id	N030-51280-0564	N030-51161-0218	N030-51095-0304	N030-51057-0758
Lab Date	07-Oct-21	10-Jun-21	05-Apr-21	26-Feb-21
Meter [Hr]	4161	3638	3361	3106
Comp Meter [Hr]	4161	3638	3361	3106
Meter On Fluid	256	269	255	288
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	15W-40	10W-30	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. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

**CONDITION / CONTAMINATION**

	29-Sep-21	01-Jun-21	26-Mar-21	15-Feb-21
<b>VISCOSITY (Centistokes)</b>				
V100 Viscosity at 100 C	14.5	14.5	12.4	12.0
<b>VISCOSITY (Centistokes)</b>				
V40 Viscosity at 40 C	115.5	115.9	86.9	83.3

**WEAR LEVELS / ADDITIVES**

	29-Sep-21	01-Jun-21	26-Mar-21	15-Feb-21
<b>ELEMENTAL ANALYSIS (ppm)</b>				
Na Sodium	7	6	3	3
K Potassium	1	0	0	1
Si Silicon	3	3	3	2
Al Aluminum	1	1	1	1
Fe Iron	18	31	22	16
Cr Chromium	1	1	1	1
Pb Lead	0	1	0	1
Cu Copper	2	2	2	1
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	1437	1556	1431	1432
Ca Calcium	1317	1381	1205	1181
Mg Magnesium	1242	1223	1123	1013
Ba Barium	0	0	0	0
B Boron	4	2	2	5
Mo Molybdenum	71	78	70	65
P Phosphorus	1173	1175	1100	1158

**VISCOSITY INDEX**

VI Viscosity Index	128	127	138	138
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**INFRARED (UFM)**

ST Soot	7	8	7	3
OXI Oxidation	26	29	26	21
SUL Sulfur Products	26	26	25	22
NIT Nitration	12	13	12	10

**ANTIFREEZE**

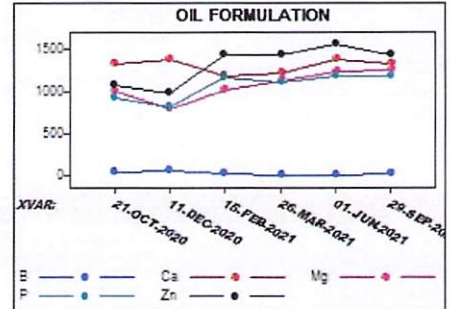
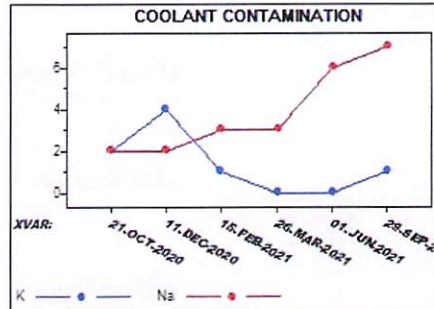
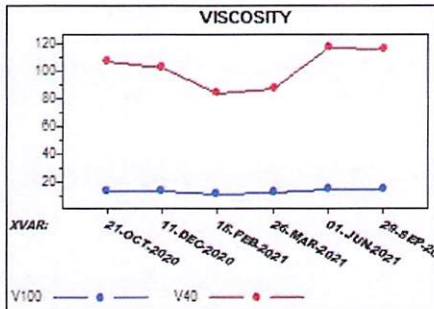
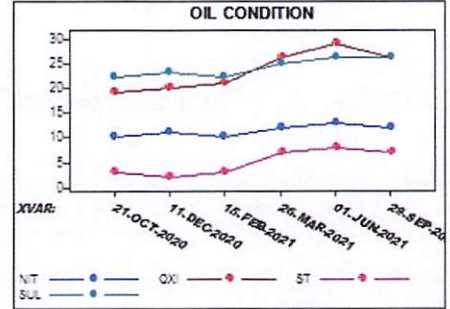
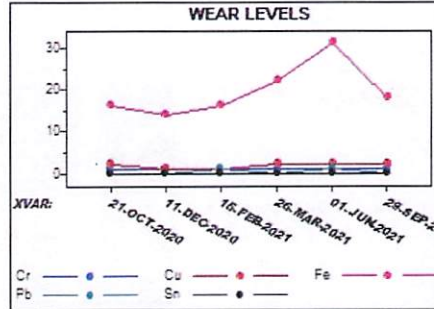
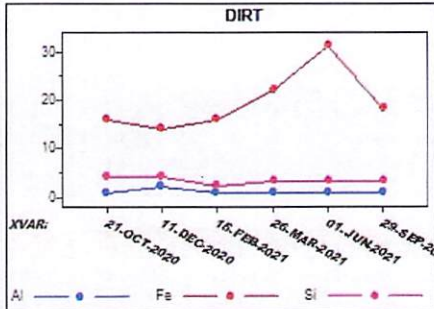
A Antifreeze	N	N	N	N
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**FUEL**

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

**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.

### Customer Information

GALENA CONTRACTING  
 1051 Middleton Way  
 Vernon  
 BRITISH COLUMBIA, V1B 2N3  
 Attention : Roger Smith  
 Phone : (250) 545-4424  
 Fax : (250) 545-0999

### Equipment Information

Unit # : FB639  
 Component : ENGINE  
 Location :  
 Unit Mfr/Model : TIGERCAT / L855E  
 Unit Serial # : 85523229  
 Comp Mfr/Model : FIAT  
 Comp Serial # : 001675782

### Lubricant

Manufacturer :  
 Brand :  
 Grade :  
 Sample # : 2021/08/10-1218  
 Lab Tracking # : 23 - 154518



### Oil Analysis

4371 Savaryn Drive SW, Edmonton  
 Alberta, Canada T6X 2E8  
 Phone: 877 962 2400

Sample		Wear Metals ppm														Additives ppm							
Sample Number	Sample Date	Aluminum	Iron	Copper	Lead	Tin	Chromium	Nickel	Titanium	Silver	Vanadium	Antimony	Beryllium	Manganese	Cadmium	Calcium	Zinc	Phosphorus	Magnesium	Molybdenum	Boron	Barium	Lithium
Ref. Sample																							
08/10-1218	2021/08/06	0	19	1	0	0	1	0	0	0	0	1	0	0	0	1310	1430	1250	1250	73	2	0	0
11/09-1332	2020/11/05	3	13	1	0	0	0	0	0	0	0	2	0			1211	1364	1390	1050	74	2	0	0

### Sample Information

Sample Date	Oil Mfr.	Oil Brand	Oil Grade	Component Service	Oil Service	Units	Oil Chg
Ref. Sample							
2021/08/06				3905	267	HR	Y
2020/11/05				-2593		HR	Y

### Contaminants ppm

Sodium	Potassium	Silicon
Ref. Sample		
2021/08/06	0	3
2020/11/05	3	10

### Physical Tests

Visc 40°C cSt	Visc 100°C cSt	Visc Index	Water	Glycol %	Fuel %	Scot %	NIT (A/cm)	OX (A/cm)
Ref. Sample								
2021/08/06	112	14.65	134	N	NT	<0.10	-	-
2020/11/05	98.2	13.90	144	N	NT	<0.10	-	-

*This was taken by Will when TURBO FAILED AND was pressuring the crankcase*

### Results

**2021/08/06** Tested wear and contamination levels are within acceptable limits. We are unable to perform Infrared (Nitration, Oxidation and/or Sulfation) analysis without a valid new oil reference. Please update the default new oil manufacturer, brand, and grade information for your component using myLab. Contact Customer Care to provide the new oil information, if desired, to complete the analysis on this sample.

**2020/11/05** Assuming normal oil service life, tested wear and contamination are within acceptable limits. We are unable to perform Infrared (Nitration, Oxidation and/or Sulfation) analysis without a valid new oil reference. Please update the default new oil manufacturer, brand, and grade information for your component using myLab. Contact Customer Care to provide the new oil information, if desired, to complete the analysis on this sample.

### Recommendations

**2021/08/06** Resample next interval to monitor. Notes: Cut filter open aluminum found in filter medium.

**2020/11/05** Resample next interval to monitor. Notes: TURBO CHARGER FAILURE

Key: Y - Yes N - Negative P - Positive R - Reportable U - Unacceptable S - Severe I - Insufficient Sample > - More Than < - Less Than NT - Not Triggered - Updated ~ - Lab Estimated

## Customer Information

GALENA CONTRACTING  
1051 Middleton Way  
Vernon  
BRITISH COLUMBIA, V1B 2N3  
Attention : Roger Smith  
Phone : (250) 545-4424  
Fax : (250) 545-0999

## Equipment Information

Unit # : FB639  
Component : ENGINE  
Location :  
Unit Mfr/Model : TIGERCAT / L855E  
Unit Serial # : 85523229  
Comp Mfr/Model : FIAT  
Comp Serial # : 001675782

## Lubricant

Manufacturer :  
Brand :  
Grade :  
Sample # : 2021/08/10-1218  
Lab Tracking # : 23 - 154518

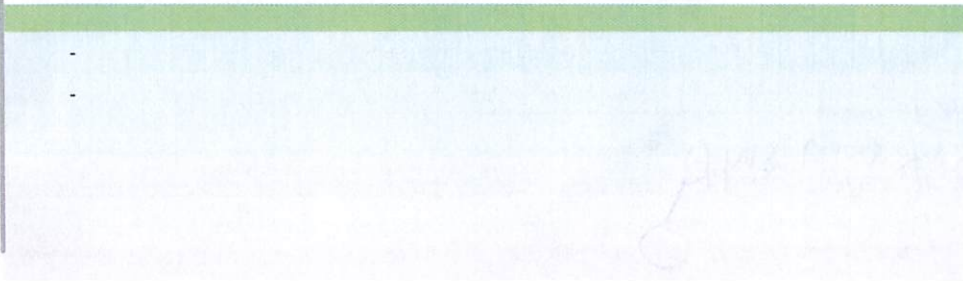


## Trend Analysis

4371 Savaryn Drive SW, Edmonton  
Alberta, Canada T6X 2E8  
Phone: 877 962 2400

## Additional Tests

Sul  
(A/cm)



## Customer Information

GALENA CONTRACTING  
 1051 Middleton Way  
 Vernon  
 BRITISH COLUMBIA, V1B 2N3  
 Attention : Roger Smith  
 Phone : (250) 545-4424  
 Fax : (250) 545-0999

## Equipment Information

Unit # : FB639  
 Component : ENGINE  
 Location :  
 Unit Mfr/Model : TIGERCAT / L855E  
 Unit Serial # : 85523229  
 Comp Mfr/Model : FIAT  
 Comp Serial # : 001675782

## Lubricant

Manufacturer :  
 Brand :  
 Grade :  
 Sample # : 2021/08/10-1218  
 Lab Tracking # : 23 - 154518



## Trend Analysis

4371 Savaryn Drive SW, Edmonton  
 Alberta, Canada T6X 2E8  
 Phone: 877 962 2400

## Your Sample Rank

0.0

Normal  
 0 - 5

Elevated  
 5 - 8

High  
 8 - 9

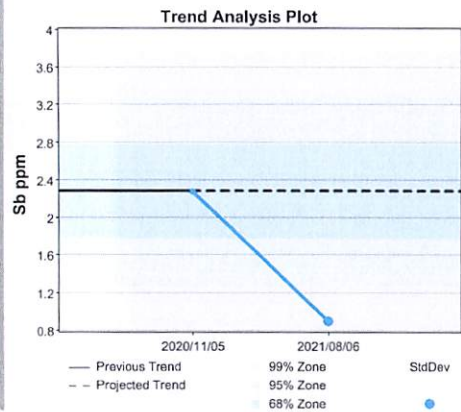
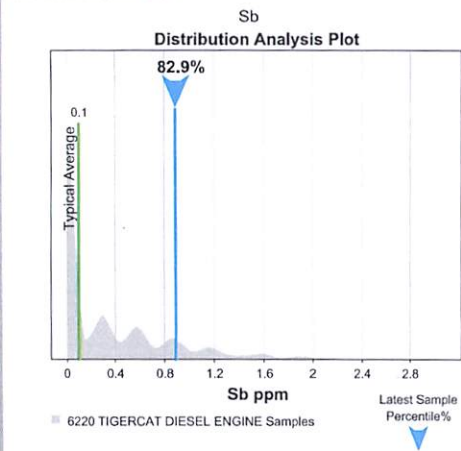
Very High  
 Over 9

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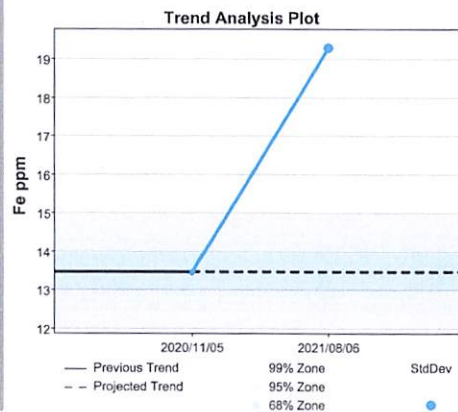
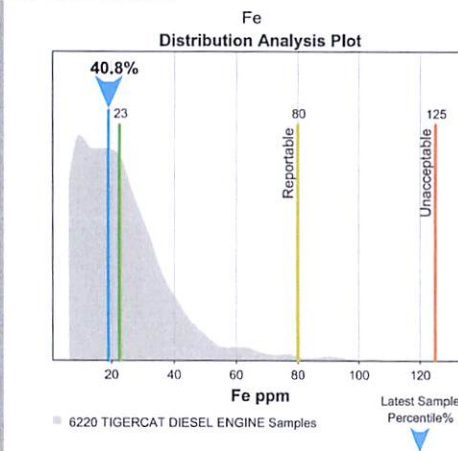
Sample rank ranges from zero to ten. The higher the sample rank, the more abnormal the sample results are.

## Top Trends Analysis

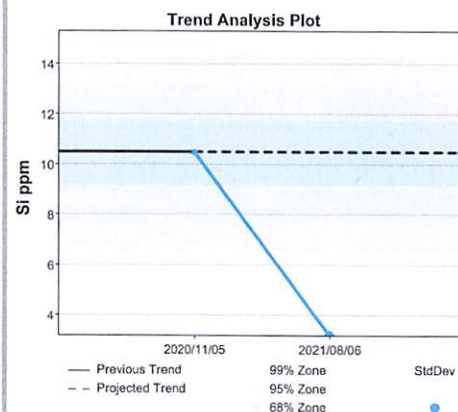
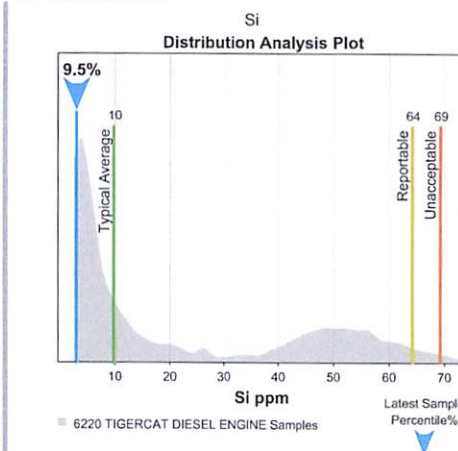
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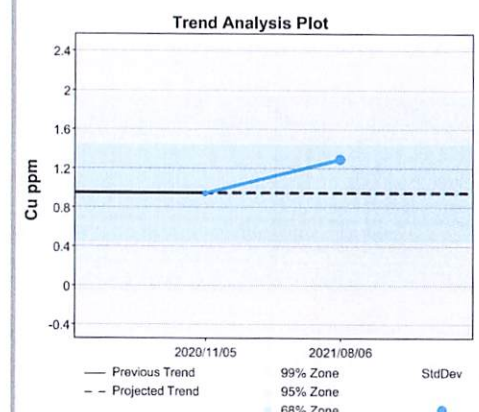
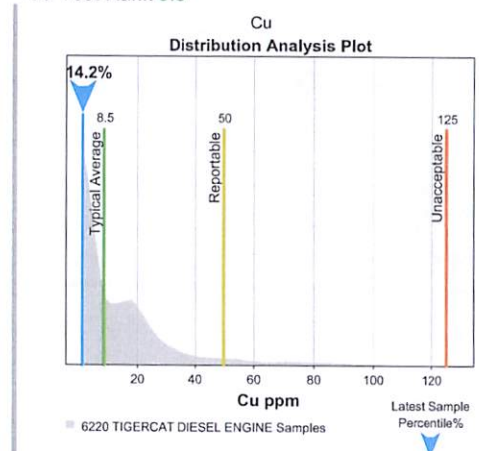
Fe Test Rank 0.4



Si Test Rank 0.1



Cu Test Rank 0.0



**ENGINE**

**EQUIP NUM: FB639**

**SERIAL NUMBER: 85523229**

**N030-51161-0218**

LABEL#: 200720373

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 9

**GALENA CONTRACTORS LTD**

**TIGERCAT 855 - FIAT 6.7L**

**No Action Required**

**Interp By: Gregory Scribner**

**Interpreted On: 11-Jun-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**

	01-Jun-21	26-Mar-21	15-Feb-21	11-Dec-20
Sample Id	N030-51161-0218	N030-51095-0304	N030-51057-0758	N030-50353-1082
Lab Date	10-Jun-21	05-Apr-21	26-Feb-21	18-Dec-20
Meter [Hr]	3638	3361	3106	2818
Comp Meter [Hr]	3638	3361	3106	2818
Meter On Fluid	269	255	288	293
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	15W-40	10W-30	10W-30	15W-40
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. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

**CONDITION / CONTAMINATION**

	01-Jun-21	26-Mar-21	15-Feb-21	11-Dec-20
<b>VISCOSITY (Centistokes)</b>				
V100 Viscosity at 100 C	14.5	12.4	12.0	13.4
<b>VISCOSITY (Centistokes)</b>				
V40 Viscosity at 40 C	115.9	86.9	83.3	102.4

**WEAR LEVELS / ADDITIVES**

	01-Jun-21	26-Mar-21	15-Feb-21	11-Dec-20
<b>ELEMENTAL ANALYSIS (ppm)</b>				
Na Sodium	6	3	3	2
K Potassium	0	0	1	4
Si Silicon	3	3	2	4
Al Aluminum	1	1	1	2
Fe Iron	31	22	16	14
Cr Chromium	1	1	1	1
Pb Lead	1	0	1	0
Cu Copper	2	2	1	1
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	1556	1431	1432	975
Ca Calcium	1381	1205	1181	1386
Mg Magnesium	1223	1123	1013	794
Ba Barium	0	0	0	0
B Boron	2	2	5	47
Mo Molybdenum	78	70	65	13
P Phosphorus	1175	1100	1158	806

**VISCOSITY INDEX**

VI Viscosity Index	127	138	138	129
--------------------	-----	-----	-----	-----

**INFRARED (UFM)**

ST Soot	8	7	3	2
OXI Oxidation	29	26	21	20
SUL Sulfur Products	26	25	22	23
NIT Nitration	13	12	10	11

**ANTIFREEZE**

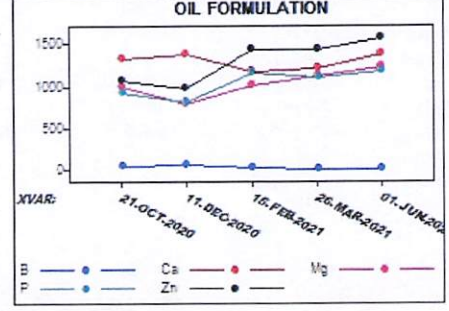
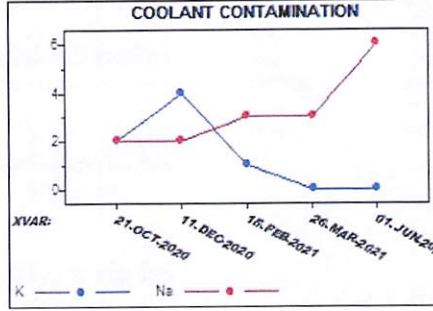
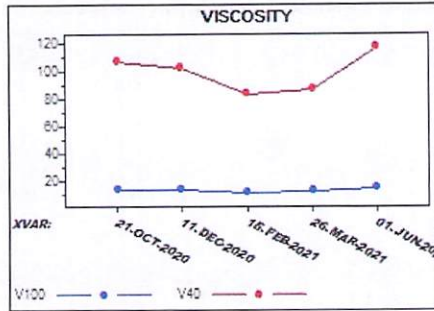
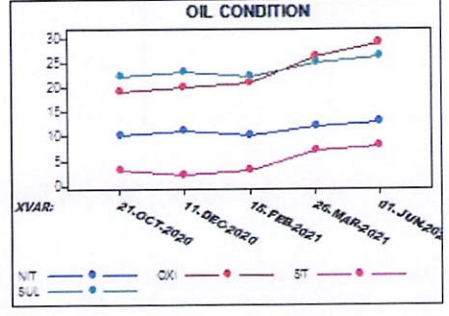
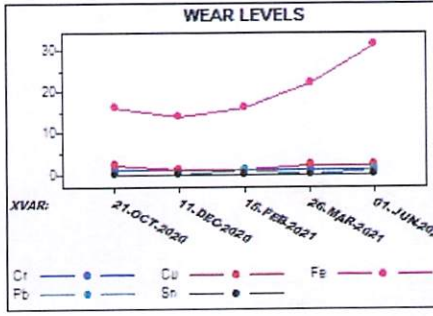
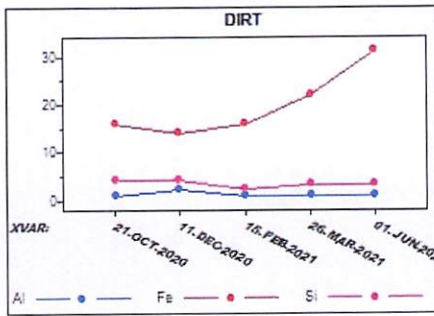
A Antifreeze	N	N	N	N
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**FUEL**

F Fuel	N	N	N	N
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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.

## HYDRAULIC SYSTEM

EQUIP NUM: FB639

SERIAL NUMBER: 85523229

N030-51109-0142

LABEL#: 200717966

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 34

GALENA CONTRACTORS  
LTD

TIGERCAT 855



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

Sampled Date	16-Mar-21
Sample Id	N030-51109-0142
Lab Date	19-Apr-21
Meter [Hr]	3268
Comp Meter [Hr]	3268
Meter On Fluid	3268
Fluid Brand	
Fluid Weight	46-ISO
Fluid Type	AW
Fluid Change	N
Filter Change	Y
Wash Loop	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

16-Mar-21

### VISCOSITY (Centistokes)

V100 Viscosity at 100 C 6.2

### VISCOSITY (Centistokes)

V40 Viscosity at 40 C 37.4

### VISCOSITY INDEX

VI Viscosity Index 113

### INFRARED (UFM)

ST Soot 0  
OXI Oxidation 7  
SUL Sulfur Products 15  
NIT Nitration 2

### ANTIFREEZE

A Antifreeze N

### WATER

W Water N

## WEAR LEVELS / ADDITIVES

16-Mar-21

### ELEMENTAL ANALYSIS (ppm)

Na	Sodium	0
K	Potassium	0
Si	Silicon	1
Al	Aluminum	0
Fe	Iron	7
Cr	Chromium	0
Pb	Lead	2
Cu	Copper	2
Sn	Tin	0
Ni	Nickel	0
Ag	Silver	0
Ti	Titanium	0
V	Vanadium	0
Zn	Zinc	428
Ca	Calcium	72
Mg	Magnesium	31
Ba	Barium	0
B	Boron	1
Mo	Molybdenum	2
P	Phosphorus	329

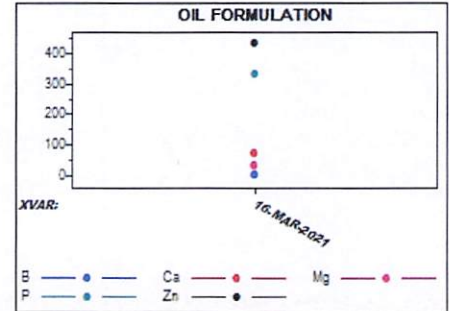
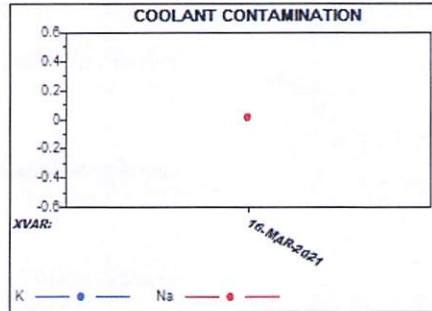
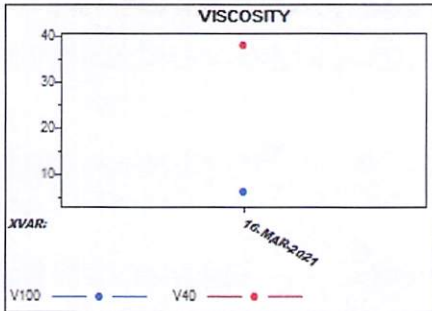
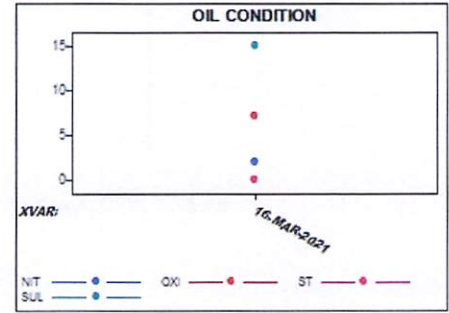
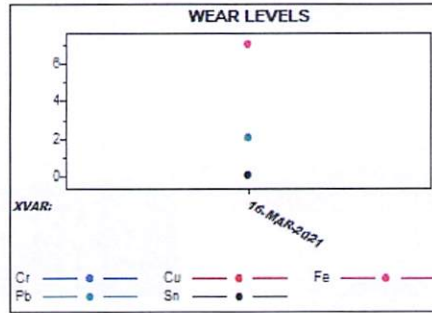
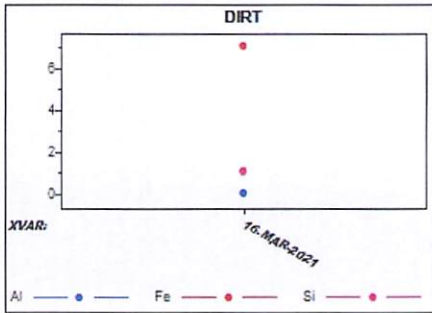
## CLEANLINESS

16-Mar-21

### PARTICLE COUNT

ISO	ISO Code Rating	21/17/13
4µ	4µ	13028
6µ	6µ	831
10µ	10µ	97
14µ	14µ	42
18µ	18µ	26
21µ	21µ	21
38µ	38µ	9
50µ	50µ	6

*Stick cyl - ER cyl  
FOUNDED PISTON SET  
Screw & Ball come out  
SOS GOOD.*



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: FB639

SERIAL NUMBER: 85523229

N030-51095-0304

LABEL#: 200603735

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 10

**GALENA CONTRACTORS LTD**

TIGERCAT 855 - FIAT 6.7L

No Action Required

Interp By: Gregory Scribner

Interpreted On: 06-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

	26-Mar-21	15-Feb-21	11-Dec-20	21-Oct-20
Sample Date	26-Mar-21	15-Feb-21	11-Dec-20	21-Oct-20
Sample Id	N030-51095-0304	N030-51057-0758	N030-50353-1082	N030-50303-0446
Lab Date	05-Apr-21	26-Feb-21	18-Dec-20	29-Oct-20
Meter [Hr]	3361	3106	2818	2525
Comp Meter [Hr]	3361	3106	2818	2525
Meter On Fluid	255	288	293	265
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-30	10W-30	15W-40	15W-40
Fluid Type	DURON HP	DURON HP	DURON HP	DURON HP
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Oil Siphon 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

	26-Mar-21	15-Feb-21	11-Dec-20	21-Oct-20
<b>VISCOSITY (Centistokes)</b>				
V100 Viscosity at 100 C	12.4	12.0	13.4	14.0
<b>VISCOSITY (Centistokes)</b>				
V40 Viscosity at 40 C	86.9	83.3	102.4	105.9

### WEAR LEVELS / ADDITIVES

	26-Mar-21	15-Feb-21	11-Dec-20	21-Oct-20
<b>ELEMENTAL ANALYSIS (ppm)</b>				
Na Sodium	3	3	2	2
K Potassium	0	1	4	2
Si Silicon	3	2	4	4
Al Aluminum	1	1	2	1
Fe Iron	22	16	14	16
Cr Chromium	1	1	1	1
Pb Lead	0	1	0	0
Cu Copper	2	1	1	2
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	1431	1432	975	1063
Ca Calcium	1205	1181	1386	1316
Mg Magnesium	1123	1013	794	999
Ba Barium	0	0	0	0
B Boron	2	5	47	29
Mo Molybdenum	70	65	13	25
P Phosphorus	1100	1158	806	914

### VISCOSITY INDEX

	26-Mar-21	15-Feb-21	11-Dec-20	21-Oct-20
VI Viscosity Index	138	138	129	132

### INFRARED (UFM)

	26-Mar-21	15-Feb-21	11-Dec-20	21-Oct-20
ST Soot	7	3	2	3
OXI Oxidation	26	21	20	19
SUL Sulfur Products	25	22	23	22
NIT Nitration	12	10	11	10

### ANTIFREEZE

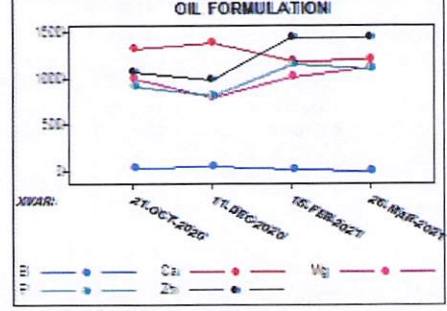
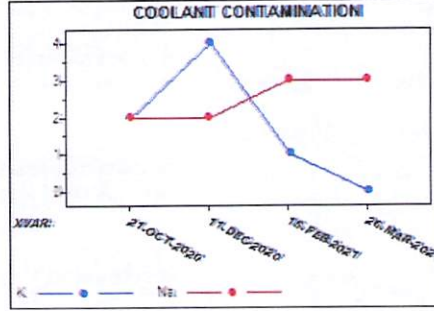
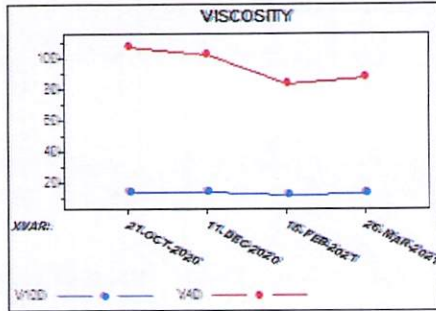
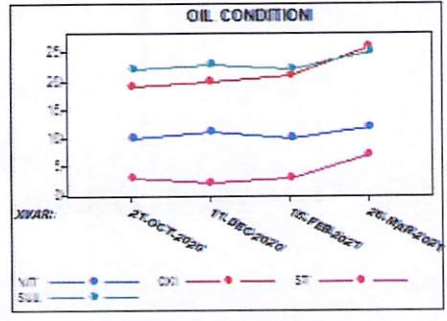
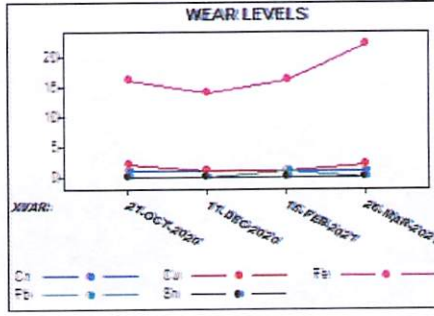
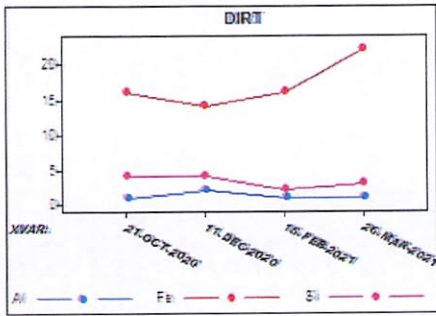
	26-Mar-21	15-Feb-21	11-Dec-20	21-Oct-20
A Antifreeze	N	N	N	N

### FUEL

	26-Mar-21	15-Feb-21	11-Dec-20	21-Oct-20
F Fuel	N	N	N	N

### WATER

	26-Mar-21	15-Feb-21	11-Dec-20	21-Oct-20
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: FB639**

**SERIAL NUMBER: 85523229**

**N030-51057-0758**

**TIGERCAT 855 - FIAT 6.7L**

**No Action Required**

**Interp By: Peter Lewandowski**

LABEL#: 200607457

SHOP JOB NUM :

SAMPLE SHIP TIME (days) : 11

**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.

**Interpreted On: 01-Mar-21**

**SAMPLE INFORMATION**

	15-Feb-21	11-Dec-20	21-Oct-20
Sample Date	15-Feb-21	11-Dec-20	21-Oct-20
Sample Id	N030-51057-0758	N030-50353-1082	N030-50303-0446
Lab Date	26-Feb-21	18-Dec-20	29-Oct-20
Meter [Hr]	3106	2818	2525
Comp Meter [Hr]	3106	2818	2525
Meter On Fluid	288	293	265
Fluid Brand	PETRO-CAN	PETRO-CAN	PETRO-CAN
Fluid Weight	10W-30	15W-40	15W-40
Fluid Type	DURON HP	DURON HP	DURON HP
Fluid Change	Y	Y	Y
Filter Change	Y	Y	Y
Widney 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**

	15-Feb-21	11-Dec-20	21-Oct-20
<b>VISCOSITY (Centistokes)</b>			
V100 Viscosity at 100 C	12.0	13.4	14.0
<b>WATER</b>			
W Water	N	N	N

**WEAR LEVELS / ADDITIVES**

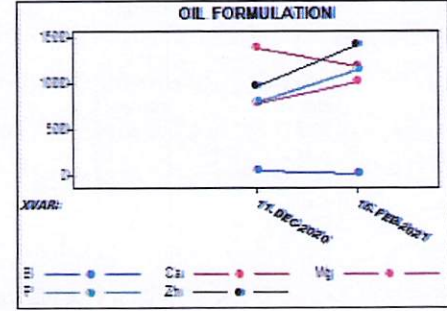
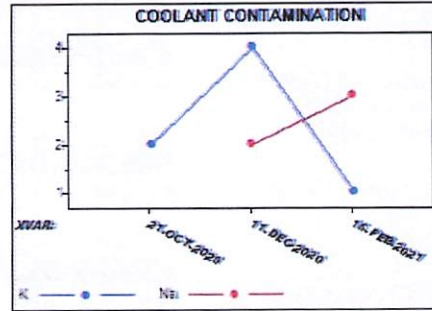
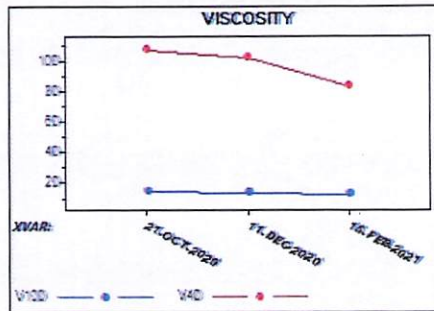
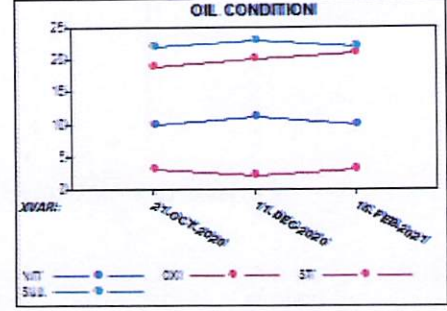
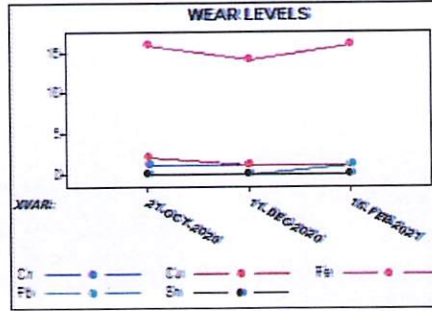
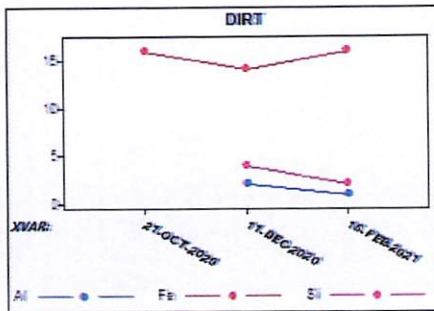
	15-Feb-21	11-Dec-20	21-Oct-20
<b>ELEMENTAL ANALYSIS (ppm)</b>			
Na Sodium	3	2	2
K Potassium	1	4	2
Si Silicon	2	4	4
Al Aluminum	1	2	1
Fe Iron	16	14	16
Cr Chromium	1	1	1
Pb Lead	1	0	0
Cu Copper	1	1	2
Sn Tin	0	0	0
Ni Nickel	0	0	0
Ag Silver	0	0	0
Ti Titanium	0	0	0
V Vanadium	0	0	0
Zn Zinc	1432	975	1063
Ca Calcium	1181	1386	1316
Mg Magnesium	1013	794	999
Ba Barium	0	0	0
B Boron	5	47	29
Mo Molybdenum	65	13	25
P Phosphorus	1158	806	914

	15-Feb-21	11-Dec-20	21-Oct-20
<b>VISCOSITY (Centistokes)</b>			
V40 Viscosity at 40 C	83.3	102.4	106.9
<b>VISCOSITY INDEX</b>			
VI Viscosity Index	138	129	132

	15-Feb-21	11-Dec-20	21-Oct-20
<b>INFRARED (UFM)</b>			
ST Soot	3	2	3
OXI Oxidation	21	20	19
SUL Sulfur Products	22	23	22
NIT Nitration	10	11	10

	15-Feb-21	11-Dec-20	21-Oct-20
<b>FUEL</b>			
F Fuel	N	N	N

	15-Feb-21	11-Dec-20	21-Oct-20
<b>ANTIFREEZE</b>			
A Antifreeze	N	N	N



**Report Comment**

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