



KENWORTH OF PENNSYLVANIA

4054 PA-308
Clintonville, PA 16372
Phone: (814) 385-1040
Fax: (814) 385-1059

REMIT TO:
KENWORTH OF PENNSYLVANIA
P4909 Louise Drive Suite 105
Mechanicsburg, PA 17055

Customer: CASH SALE - RETAIL SERVICE
000002

Ship To: CASH SALE - RETAIL SERVICE
NON-TAX

CUSTOMER INVOICE

Work Order

VS28048

Invoice Date: 04-19-23

Tax ID:

Tax ID Date:

Page 1 of 3

Year	Make / Model		VIN	License	Mileage	Unit / Stock	Authorization
2019	Kenworth / W9 Series		1XKWD49X6KR346739	P925836	540125M	42345	
Open Date / Time		Delivery Date	Delivery Mileage	Engine Hours	Reefer Hours	Standby Hours	P.O. Number
04-04-23 / 01:13PM		01-15-19		11516.0	0.0	0.0	
Complete	Engine Model / Serial #			Transmission Model/Serial #		Key Tag	Service Writer
04-19-23	ISX / X15 / 80123389			FULLER RTLO18918B 18-SPEED SUPE / K1314332			cvs*ST
Memo							

1 DPF CUSTOMER STATES TO REPLACE DPF

CAUSE:

DOC IS BROKEN INTERNALLY.

CORRECTION:

REMOVED THE SIDE STEP ASSEMBLY AND ACCESS COVER. REMOVED THE DPF AND DOC GASKET ASSEMBLY, DISCONNECTED THE HARNESS AND SENSORS. REMOVED THE AFTER-TREATMENT ASSEMBLY AND FOUND THE DOC WAS CRACKED INTERNALLY AND METAL COMING OUT. UPDATED THE CUSTOMER. GOT APROVAL TO REPLACE THE DOC. INSTALLED A NEW DPF AND DOC FILTER INTO THE CHASSIS. . RECONNECTED THE AFTER-TREATMENT ASSEMBLY USING NEW GASKETS AND CLAMPS AS NEEDED. REINSTALLED THE SENSORS AND HARNESSS. REINSTALLED THE SIDE STEP. UPDATED ECM SOFTWARE. ALL OKAY AT THIS TIME.

TOTAL LABOR 875.00
TOTAL PARTS 10,827.07

Qty	Part Number	Description	Unit	Extended
1	5633757CUM	KIT, PARTICULATE FILTER	3,067.04	3,067.04
1	2880213CUM	CLAMP,V BAND	65.96	65.96
1	2880215CUM	GASKET, AFM DEVICE	20.87	20.87
1	5509694CUM	MODULE,INLET CATALYST	7,462.50	7,462.50
1	EC3501	COOLANT-TRP ELC 50/50 JUG	8.99	8.99
1	2871960CUM	SENSOR,DFN PRESSURE	201.71	201.71

2 ESPAR HEATER CUSTOMER STATES ESPAR HEATER FAILED,CHECK & ADVISE

CAUSE:

REPLACED ESPAR HEATER

CORRECTION:

PULLED UNIT INTO THE SHOP AND REMOVED THE ESPAR HEATER ASSEMBLY AND INSTALLED A NEW HEATER ASSEMBLY. CONNECTED THE FUEL LINE AND EXHAUST. CONNECTED THE HARNESS. TESTED THE UNIT, ALL OKAY AT THIS TIME.

TOTAL LABOR 525.00
TOTAL PARTS 2,006.86

Qty	Part Number	Description	Unit	Extended
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Terms: Net 10th E.O.M The dealer expressly disclaims all warranties, express or implied, including any implied warranties of merchantability or fitness for a particular purpose, and neither assumes nor authorizes any person to assume for it any liability in connection with the sale of these parts and/or service. Damages - Buyer shall not be entitled to recover from dealer any consequential damages, damages to property, for loss of use, time, profits, or income, or any other incidental damages. Dealer not responsible for items left in vehicles.

RECEIVED BY: _____ DATE: _____

MOTOR TRUCK EQUIPMENT COMPANY - SINCE1933
CARLISLE • NEW STANTON • DUNMORE • CLINTONVILLE • SHARTLESVILLE • YORK • LANCASTER • PITTSBURGH

Work Order

VS28048

Page 3 of 3

Invoice Date: 04-19-23

Year	Make / Model	VIN	License	Mileage	Unit / Stock	Authorization
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Open Date / Time	Delivery Date	Delivery Mileage	Engine Hours	Reefer Hours	Standby Hours	P.O. Number
04-04-23 / 01:13PM	01-15-19		11516.0	0.0	0.0	
Complete	Engine Model / Serial #	Transmission Model/Serial #			Key Tag	Service Writer
04-19-23	ISX / X15 / 80123389	FULLER RTLO18918B 18-SPEED SUPE / K1314332				cvs*ST
Memo						

1	122961EXX	M-DELVAC 1 TRANS FL 40, 3	297.40	297.40
2	852587	75W90 GEAR OIL	193.74	387.48

6 CUSTOMER STATES TO RESEAL POWER STEERING PUMP

DRAINED THE POWER STEERING FLUID AND REMOVED THE LINES. REMOVED THE PUMP AND CLEANED THE MOUNTING SURFACES. REINSTALLED THE PUMP USING NEW GASKETS AND HARDWARE AS NEEDED. REMOVED THE LINES FROM THE TANK AND INSTALLED NEW LINES AND CLMAPS. FILLED WITH NEW FLUID. REMOVED THE OIL PRESSURE SENSOR AND INSTALLED A NEW SENSOR AND CLEANED TEH OIL FROM THE HARNESS. SPRAYED THE ENGINE BAY OFF. ALL OKAY AT THIS TIME.

TOTAL LABOR	700.00
TOTAL PARTS	220.30

Qty	Part Number	Description	Unit	Extended
1	4921517CUM	SENSOR,PRESSURE	111.52	111.52
3	6536	BRAKE CLEANER	10.26	30.78
1	AP26871	ADAPTER #8 MJIC45 TO #8 M	16.48	16.48
1	RSE	FITTING	11.57	11.57
1	4988280CUM	GASKET,HYDRAULIC PUMP	4.55	4.55
2	BSS	DISC	2.59	5.18
2	9206TRP	CLAMP-HOSE W/LINER #6	2.28	4.56
2	9210TRP	CLAMP-HOSE W/LINER #10	2.38	4.76
2	123034EXX	MOBIL MULTI-VEHICLE ATF (7.73	15.46
2	HE2707	HOSE-PUSH ON #8X50' XT PO	3.66	7.32
2	CT4513D	TIE-CABLE DUAL CLAMP BLK	4.06	8.12

SHOP SUPPLIES 110.17

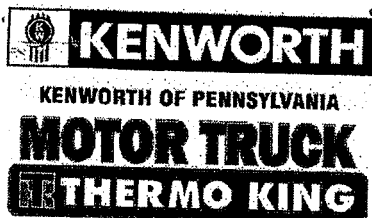
	OTH SUPL RECOVERY-CV	0610621	110.17
	RETAIL LBR TRK-CL	4610640	3,062.50
	P&A RETAIL RO'S-CL	4680600	13,827.33
000002	CASH SALE	2250006	17,000.00

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RECEIVED BY: _____ DATE: _____

MOTOR TRUCK EQUIPMENT COMPANY - SINCE 1933

CARLISLE • NEW STANTON • DUNMORE • CLINTONVILLE • SHARTLESVILLE • YORK • LANCASTER • PITTSBURGH



80 Fitness Drive
Muncy, PA 17756
Phone: (570) 308-3590
Fax: (570) 308-3601

REMIT TO:
KENWORTH OF PENNSYLVANIA
4909 Louise Drive Suite 105
Mechanicsburg, PA 17055

Customer: CASH SALE - RETAIL SERVICE
000002

Ship To: CASH SALE - RETAIL SERVICE
NON-TAX

CUSTOMER INVOICE
Work Order
MR5594

Invoice Date: 10-27-22

Tax ID:

Tax ID Date:

Page 1 of 2

Tax ID:		Tax ID Date:		Invoice Date: 10-27-22		Page 1 of 2	
Year	Make / Model	VIN	License	Mileage	Unit / Stock	Authorization	
2019	Kenworth / W900	1XKWD49X6KR346739	P925836	493082M	42345		
Open Date / Time	Delivery Date	Delivery Mileage	Engine Hours	Reefer Hours	Standby Hours	P.O. Number	
10-19-22 / 11:46AM	01-15-19		10466.0	0.0	0.0		
Complete	Engine Model / Serial #	Transmission Model/Serial #			Key Tag	Service Writer	
10-27-22	X15 / 80123389	FULLER RTLO18918B 18-SPEED SUPE / K1314332				JT*JO	
Memo							

1. REPLACE CLUTCH AND DISC

1 REPLACE CLUTCH, INPUT SHAFT AND REAR MAIN SEAL AS NEEDED

CAUSE:

REPLACE CLUTCH

CORRECTION:

GOT TRUCK IN AND GOT IT LIFTED UP ON LIFT. TOOK OFF THE EXHUAUST THAT RUNS ACROSS FROM SIDE TO SIDE. TOOK BAR OUT THAT RUNS UNDER TRANS. UNHOOKED DRIVELINE, UNHOOKED AIR LINES ON TRANSMISSION. TOOK OFF THE CLUTCH ARM. UNBOLTED THE SHIFTER FROM TRANS. UNHOOKED THE CYCLINDER TO CLUTCH LINK. TOOK OUT THE TOP BOLTS FROM TRANS. PUT JACK UNDER TRANS. BOLTED PLATE TO BACK OF TRANS AND TOOK OUT THE BOTTOM BOLTS. TOOK OUT TRANS. TOOK OUT CROSS SHAFTS AND CLUTCH FORK. TOOK OUT INPUT SHAFT AND THE CROSS-SHAFT BUSHINGS. REMOVED THE CLUTCH, FLYWHEEL, AND REAR MAIN SEAL. FINISHED PUTTING INPUT SHAFT IN AND THE CROSS SHAFTS BUSHINGS REEMED OUT SO THE CROSS SHAFTS WILL TURN. PUT NEW GASKET ON AND COVER PLATE. PUT CROSS SHAFTS IN AND THE CLUTCH FORK. CLEANED UP THE CRANKSHAFT FOR THE REAR MAIN SEAL. INSTALLED REAR MAIN SEAL ACCORDING TO QICK SERVE. INSTALLED RESURFACED FLYWHEELAND TORQUED TO 185 FT LBS. REINSTALLED TRANSMISSION AND TORQUED BOTTOM BOLTS. GOT THE TOP BOLTS IN AND LINES AND COOLER HOOKED AND BOLTED BACK ON. HOOKED UP THE CLUTCH LINKAGE CYLINDER. HOOKED UP THE SHIFTER AIR LINES AND BOLTED IT TO TRANS. HOOKED UP DRIVE LINE AND BELLY BAR. PUT THE EXHUAUST PIPE BACK ON. PUT TRUCK BACK ON GROUND AND PUT COOLANT IN THE SYSTEM. STARTED TRUCK AND FOUND COOLANT LEAK THE END OF THE ONE LINE TO TRANS COOLER. FIXED LEAK.

CHECKED CLUTCH ADJUSTMENT. ROAD TESTED NO ISSUES PARKED TRUCK.

TOTAL LABOR	2,431.00
TOTAL PARTS	1,109.48
TOTAL SUBLET LABOR	111.60

Qty	Part Number	Description	Unit	Extended
1	K2468	KIT-CLUTCH INSTALL	278.14	278.14
1	4965569CUM	KIT,SEAL	112.14	112.14
1	108391-74AM	CLUTCH-15.5" 1650 TQ 10 S	693.12	693.12
1	2420OPTX	THREADLOCKER-MED STR BLUE	4.71	4.71
1	50AS	CLAMP-EXHAUST ACCUSEAL 5"	11.84	11.84
1	EC40PLA	CLAMP-EXHAUST WB PREFRMD	9.53	9.53
1	SUBLET LABOR	SUBLET LABOR	111.60	111.60
clev brothers inv tv78859 flywheel resurface				

RETURN POLICY: All returned merchandise subject to 20% handling charge No merchandise may be returned for credit without proper authority and copy of original invoice. No returns on electrical parts. Credit for returned cores will be issued only on undamaged cores returned within 10 days of purchase in their original packaging. DISCLAIMER OF WARRANTIES: Any warranties on the produce sold hereby are those made by the manufacturer. The seller hereby expressly disclaims all warranties, either express or implied, including any implied warranty of merchantability or fitness for a particular purpose. The seller neither assumes nor authorizes any other person to assume for it any liability in connection with the sale of said products

Customer: _____ Date: _____

CUSTOMER INVOICE

Invoice Date: 10-27-22

Work Order

MR5594

Page 2 of 2

Year	Make / Model	VIN	License	Mileage	Unit / Stock	Authorization
2019	Kenworth / W900	1XKWD49X6KR346739	P925836	493082M	42345	
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Complete	Engine Model / Serial #	Transmission Model/Serial #	Key Tag	Service Writer		
10-27-22	X15 / 80123389	FULLER RTLO18918B 18-SPEED SUPE / K1314332				
Memo						JT*JO

2 SMALL COOLANT LEAK - CHECK & ADVISE

CAUSE:

SMALL COOLANT LEAK - CHECK & ADVISE

CORRECTION:

BEFORE DRAINING THE SYSTEM OF COOLANT. AS THE TRUCK WAS IN AIR. LOOKED AND SAW IT WAS LEAKING FROM THE BACK SIDE OF THE BLOCK. PLASTIC FITTING WAS BROKEN. TOOK OLD HOSE OFF THE TRANS COOLER. GOT BROKEN PIECE OUT. PUT IN NEW BRASS FITTING AND NEW HOSE. CHECKED FOR LEAKS. PUT A PRESSURE TESTER ON COOLANT SYSTEM AND IT HELD WITH NO DROP FOR 10 MIN. RAN TRUCK AND CHECKED FOR LEAKS DID NOT SEE ANY VISIBLE LEAKS.

TOTAL LABOR 340.00
TOTAL PARTS 127.33

Qty	Part Number	Description	Unit	Extended
1	V38-1090	FTG-45DEG 3/4" HOSE BEAD	41.27	41.27
2	D1030-3755	HOSE-HEATER #12X25' J20R3	6.98	13.96
2	9212TRP	CLAMP-HOSE W/LINER #12	2.04	4.08
1	K1T-RPL25-20	HARDWARE-RPL CP	34.01	34.01
1	K1T-RPL25-20	HARDWARE-RPL CP	34.01	34.01

SHOP SUPPLIES 277.10

OTH SUPL RECOVERY-MD 0611121 277.10
RETAIL LBR TRK-MD 4611140 2,771.00
SUBLET REPAIRS-MD 4661100 111.60
P&A RETAIL RO'S-MD 4681100 1,236.81
000002 CASH SALES 2250011 4,396.51

RETURN POLICY: All returned merchandise subject to 20% handling charge. No merchandise may be returned for credit without proper authority and copy of original invoice. No returns on electrical parts. Credit for returned cores will be issued only on undamaged cores returned within 10 days of purchase in their original packaging. DISCLAIMER OF WARRANTIES: Any warranties on the produce sold hereby are those made by the manufacturer. The seller hereby expressly disclaims all warranties, either express or implied, including any implied warranty of merchantability or fitness for a particular purpose. The seller neither assumes nor authorizes any other person to assume for it any liability in connection with the sale of said products.

Customer: _____

Date: _____

CUSTOMER INVOICE

ENGINE TRUCK

EQUIP NUM: 42345

SERIAL NUMBER: 346739

CUMMINS ISX

No Action Required

B150-53117-0157

SAMPLE SHIP TIME (days) : 3

MARK HARRIS

Interp By: Matthew E. Clark

Interpreted On: 28-Apr-23


 NORMAL WEAR METAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING.

SAMPLE INFORMATION

	24-Apr-23	29-Mar-23	14-Jun-22
Sample Date	24-Apr-23	29-Mar-23	14-Jun-22
Sample Id	B150-53117-0157	B150-53094-0207	B150-52171-0314
Lab Date	27-Apr-23	04-Apr-23	20-Jun-22
Meter [Hr]	545827	539907	442859
Meter On Fluid	5920	33420	26674
Fluid Brand	CHEVRON		CHEVRON
Fluid Weight	10W-30	15W-30	15W-40
Fluid Type			
Fluid Change	N	U	Y
Filter Change	U	U	U
Total Fluid Added	0	0	0

PREVIOUS SAMPLE

LEAD IS ELEVATED BASED ON PREVIOUS SAMPLE. MAY INDICATE SYSTEM WEAR. EXAMINE THE OIL, INSPECT ANY SCREEN(S) OIL FILTER(S) FOR LARGE DEBRIS. HAS THE OIL BEEN CHANGED RECENTLY? CONSIDER CHANGING THE OIL BEFORE THE NEXT SCHEDULED OIL CHANGE TO RID THE SYSTEM OF CONTAMINANTS/DEBRIS. RESAMPLE IN 3,000 MILES TO MONITOR

For additional sample history, go to:

my.cat.com

CONDITION / CONTAMINATION

		24-Apr-23	29-Mar-23	14-Jun-22
VISCOSITY (CENTISTOKES) ASTM D445				
V100	Viscosity at 100 C	10.90	11.51	13.4

WEAR LEVELS / ADDITIVES

		24-Apr-23	29-Mar-23	14-Jun-22
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]				
Cu	Copper	2	7	1
Fe	Iron	12	45	29
Cr	Chromium	2	3	2
Al	Aluminum	5	6	6
Pb	Lead	2	22	0
Sn	Tin	1	1	2
Si	Silicon	6	6	12
Na	Sodium	8	9	3
K	Potassium	17	19	1
Mo	Molybdenum	8	9	121
Ni	Nickel	0	0	1
Ag	Silver	1	1	
Ti	Titanium	0	0	0
V	Vanadium	0	0	4
Ca	Calcium	1371	1440	1516
P	Phosphorus	711	686	631
Zn	Zinc	871	926	827
Mg	Magnesium	729	750	667
Ba	Barium	0	0	0
B	Boron	62	36	

INFRARED (UFM) ASTM E2412

ST	Soot	12	37	24
OXI	Oxidation	16	30	24
SUL	Sulfur Products	21	32	30
NIT	Nitration	10	14	12

WATER

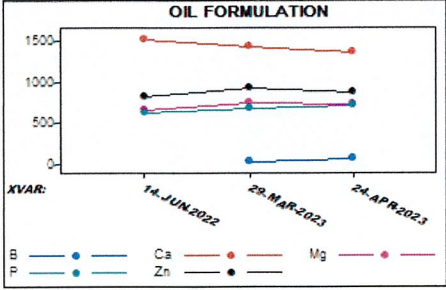
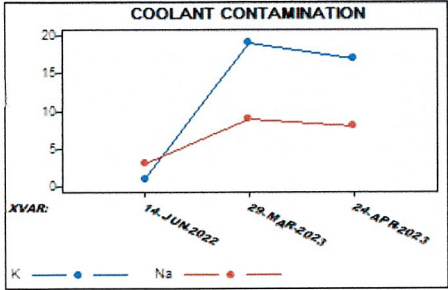
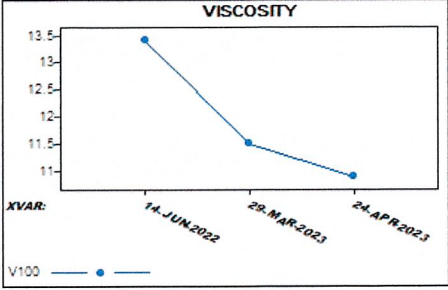
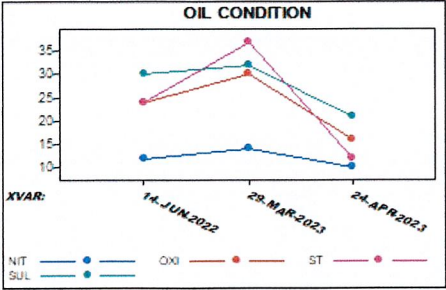
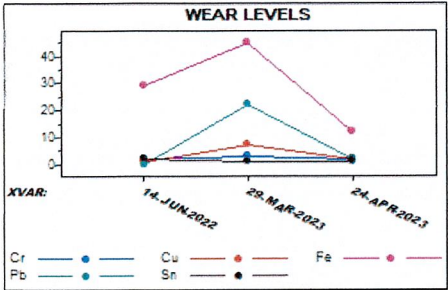
W	Water	N	N	N
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ANTIFREEZE

A	Antifreeze	N	N	N
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FUEL

F	Fuel	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>. Let our lab know how it is doing! Provide feedback using the following link! <https://forms.gle/TXXL8CXwNfzBuMv4A>

ENGINE TRUCK

EQUIP NUM: 42345

SERIAL NUMBER: HARRIS_42345

CUMMINS ISX

Monitor Compartment



Interp By: Matthew E. Clark

Interpreted On: 05-Apr-23

B150-53094-0207

SAMPLE SHIP TIME (days) : 6

MARK HARRIS

SPRENKLS

RECEIVED DATE: 04-Apr-23

LEAD IS ELEVATED BASED ON PREVIOUS SAMPLE. MAY INDICATE SYSTEM WEAR. EXAMINE THE OIL, INSPECT ANY SCREEN(S) OIL FILTER(S) FOR LARGE DEBRIS. HAS THE OIL BEEN CHANGED RECENTLY? CONSIDER CHANGING THE OIL BEFORE THE NEXT SCHEDULED OIL CHANGE TO RID THE SYSTEM OF CONTAMINANTS/DEBRIS. RESAMPLE IN 3,000 MILES TO MONITOR.

SAMPLE INFORMATION



Sampled Date	29-Mar-23	14-Jun-22
Sample Id	B150-53094-0207	B150-52171-0314
Lab Date	04-Apr-23	20-Jun-22
Meter [Hr]	539907	442859
Meter On Fluid	33420	26674
Fluid Brand		CHEVRON
Fluid Weight	15W-30	15W-40
Fluid Type		
Fluid Change	U	Y
Filter Change	U	U
Total Fluid Added	0	0

PREVIOUS SAMPLE

NORMAL WEAR METAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING. EVALUATION CAN BE RE-ASSESSED WHEN SAMPLING HAS FURTHER DEVELOPED A TREND.

For additional sample history, go to:

my.cat.com

CONDITION / CONTAMINATION

29-Mar-23 14-Jun-22

VISCOSITY (CENTISTOKES) ASTM D445

V100	Viscosity at 100 C	11.51	13.4
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INFRARED (UFM) ASTM E2412

ST	Soot	37	24
OXI	Oxidation	30	24
SUL	Sulfur Products	32	30
NIT	Nitration	14	12

WEAR LEVELS / ADDITIVES

29-Mar-23 14-Jun-22

ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]

Cu	Copper	7	1
Fe	Iron	45	29
Cr	Chromium	3	2
Al	Aluminum	6	6
Pb	Lead	22	0
Sn	Tin	1	2
Si	Silicon	6	12
Na	Sodium	9	3
K	Potassium	19	1
Mo	Molybdenum	9	121
Ni	Nickel	0	1
Ag	Silver	1	
Ti	Titanium	0	0
V	Vanadium	0	4
Ca	Calcium	1440	1516
P	Phosphorus	686	631
Zn	Zinc	926	827
Mg	Magnesium	750	667
Ba	Barium	0	0
B	Boron	36	

WATER

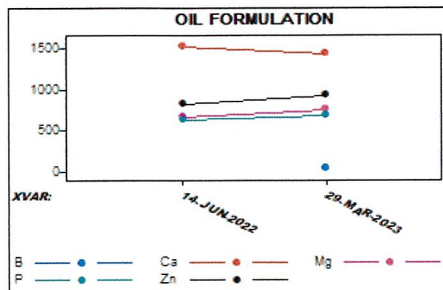
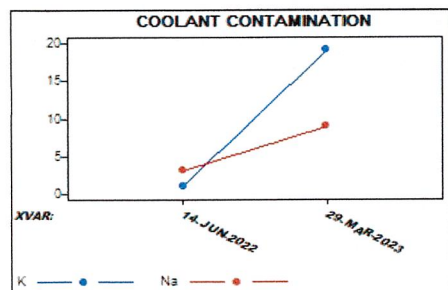
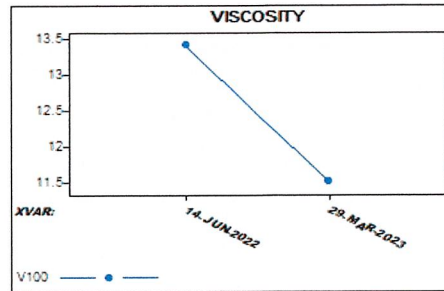
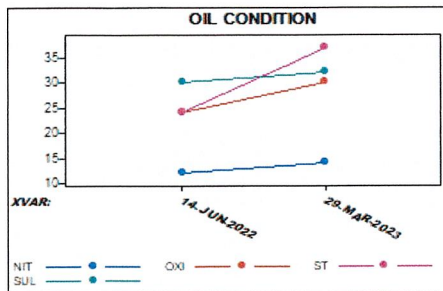
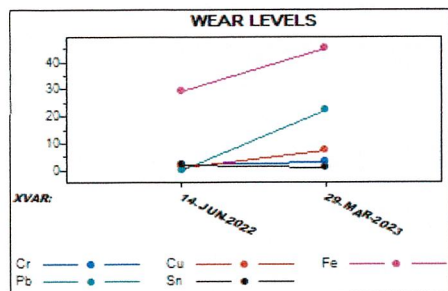
W	Water	N	N
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ANTIFREEZE

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

FUEL

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



Report Comment

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ENGINE

EQUIP NUM: C15

SERIAL NUMBER: SPRENKLE_C15

B150-53009-0150

SAMPLE SHIP TIME (days) : 6

T & G SPRENKLE GARAGE

SHOP

RECEIVED DATE: 09-Jan-23

CUMMINS C15_CUMMINS

No Action Required

Interp By: Matthew E. Clark

Interpreted On: 09-Jan-23

NORMAL WEAR METAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING. EVALUATION CAN BE RE-ASSESSED
WHEN SAMPLING HAS FURTHER DEVELOPED A TREND.

LOW

SAMPLE INFORMATION

For additional sample history, go to:

my.cat.com

Sampled Date 03-Jan-23
Sample Id B150-53009-0150
Lab Date 09-Jan-23
Meter [Hr] 520000
Meter On Fluid 32000
Fluid Brand CHEVRON
Fluid Weight 10W-30
Fluid Type
Fluid Change Y
Filter Change U
Total Fluid Added 0

CONDITION / CONTAMINATION

03-Jan-23

VISCOSITY (CENTISTOKES) ASTM D445

V100 Viscosity at 100 C 11.0

INFRARED (UFM) ASTM E2412

ST	Soot	26
OXI	Oxidation	20
SUL	Sulfur Products	25
NIT	Nitration	11

WATER

W Water N

WEAR LEVELS / ADDITIVES

03-Jan-23

ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]

Cu	Copper	2
Fe	Iron	29
Cr	Chromium	1
Al	Aluminum	5
Pb	Lead	3
Sn	Tin	0
Si	Silicon	4
Na	Sodium	10
K	Potassium	13
Mo	Molybdenum	16
Ni	Nickel	0
Ag	Silver	1
Ti	Titanium	0
V	Vanadium	0
Ca	Calcium	1433
P	Phosphorus	711
Zn	Zinc	937
Mg	Magnesium	766
Ba	Barium	0
B	Boron	26

ANTIFREEZE

A Antifreeze N

FUEL

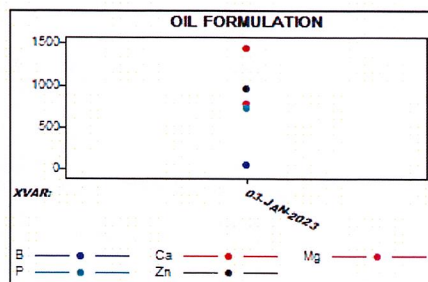
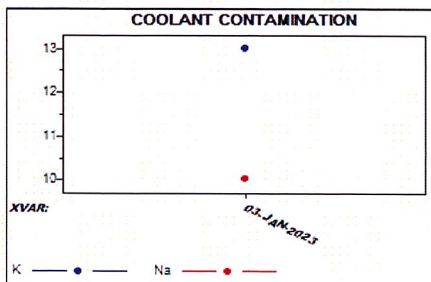
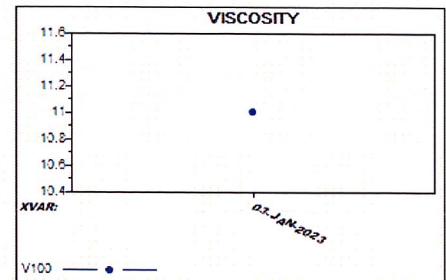
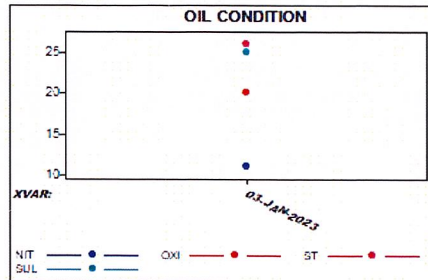
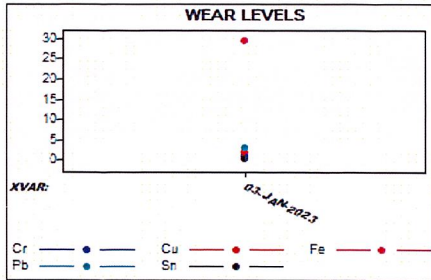
F Fuel N

ENGINE
SERIAL NUMBER: SPRENKLE_C15
EQUIP NUM: C15
CUMMINS C15_CUMMINS

B150-53009-0150



No Action Required



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>. Let our lab know how it is doing! Provide feedback using the following link! <https://forms.gle/TXXL8CXwNfzBuMv4A>

TOM SPRENKLE
T & G SPRENKLE GARAGE
14731 RT 104
MIDDLEBURG, PA 17842

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.

ENGINE

B150-51350-0225

SAMPLE SHIP TIME (days) : 7

MLG SERVICES

RECEIVED DATE: 16-Dec-21

EQUIP NUM: X15

CUMMINS Cummins

No Action Required

NORMAL WEAR METAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING. EVALUATION CAN BE RE-ASSESSED
WHEN SAMPLING HAS FURTHER DEVELOPED A TREND.

SERIAL NUMBER: MLGSVC_X15

Interp By: Matthew E. Clark

Interpreted On: 17-Dec-21

SAMPLE INFORMATION

Sampled Date 09-Dec-21
Sample Id B150-51350-0225
Lab Date 16-Dec-21
Meter [Hr] 392500
Meter On Fluid 28350
Fluid Brand CHEVRON
Fluid Weight 15W-40
Fluid Type
Fluid Change Y
Filter Change U

PREVIOUS SAMPLE

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

CONDITION / CONTAMINATION

09-Dec-21

VISCOSITY (CENTISTOKES) ASTM D445

V100 Viscosity at 100 C 13.0

INFRARED (UFM) ASTM E2412

ST	Soot	20
OXI	Oxidation	23
SUL	Sulfur Products	28
NIT	Nitration	12

WATER

W Water N

ANTIFREEZE

A Antifreeze N

FUEL

F Fuel N

WEAR LEVELS / ADDITIVES

09-Dec-21

ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]

Cu	Copper	2
Fe	Iron	58
Cr	Chromium	8
Al	Aluminum	7
Pb	Lead	1
Sn	Tin	2
Si	Silicon	9
Na	Sodium	2
K	Potassium	0
Mo	Molybdenum	133
Ni	Nickel	0
Ti	Titanium	1
V	Vanadium	3
Ca	Calcium	1468
P	Phosphorus	649
Zn	Zinc	912
Mg	Magnesium	621
Ba	Barium	0

ENGINE

SERIAL NUMBER: MLGSVC_X15

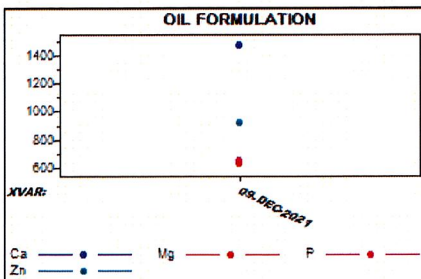
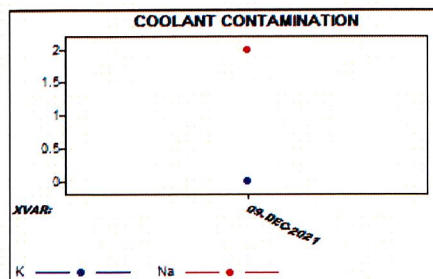
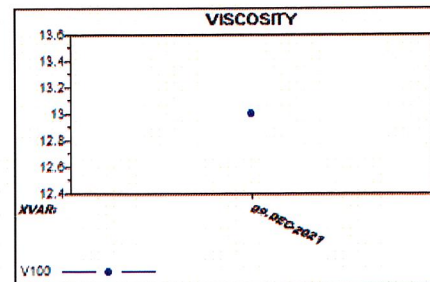
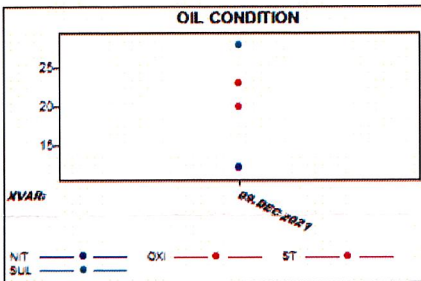
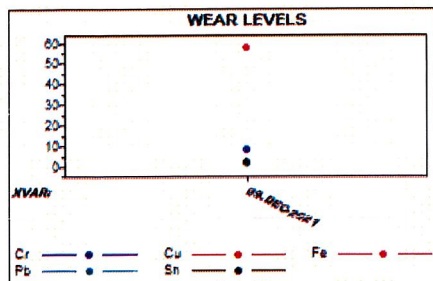
EQUIP NUM: X15

CUMMINS Cummins

B150-51350-0225



No Action Required



Report Comment

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MLG SERVICES
14731 RT-104
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