



GROUP  
ENG

MODEL  
Multiple Models  
Listed

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## TECHNICAL SERVICE BULLETIN

SUBJECT:

EXCESSIVE OIL CONSUMPTION  
NU/GAMMA/THETA/KAPPA ENGINES

### ★ NOTICE

This bulletin has been revised to include additional information. New/revised sections of this bulletin are indicated by a black bar in the margin area.

This bulletin provides information on diagnosing and/or repairing some 2011-2021MY vehicles (refer to the tables on pages 8-9 for applicable models and engine), which may exhibit a symptom of excessive oil consumption. Follow the flowchart on page 2 and instructions outlined on page 3 in this procedure to repair a vehicle exhibiting excessive oil consumption.

### Key points regarding engine oil maintenance:

- Engine oil is responsible for lubrication, cooling, and operation of hydraulic components of the engine. Engine oil is expected to be consumed in normally operating engines. Therefore, regular oil level checking and oil changes are required as part of the factory maintenance schedule.
- The purpose of oil changes is to prevent oil deterioration. A separate requirement is to maintain the oil level, independent of the oil change interval. It is necessary to check the oil level at every fueling stop and replenish the oil, if necessary. This is one of several check items that the owner's manual recommends at every fueling stop.
- Operation with deteriorated or low engine oil causes reduced lubrication and cooling, as well as impaired operation of hydraulic components. This leads to abnormal wear of engine parts, oversaturation of carbon, and deposits of oil sludge. These can result in damage to multiple areas of the engine, ultimately requiring a costly, lengthy, and preventable repair.

Ring Stick /Deposit



Excessive wear  
On wetted parts



Oil Sludge

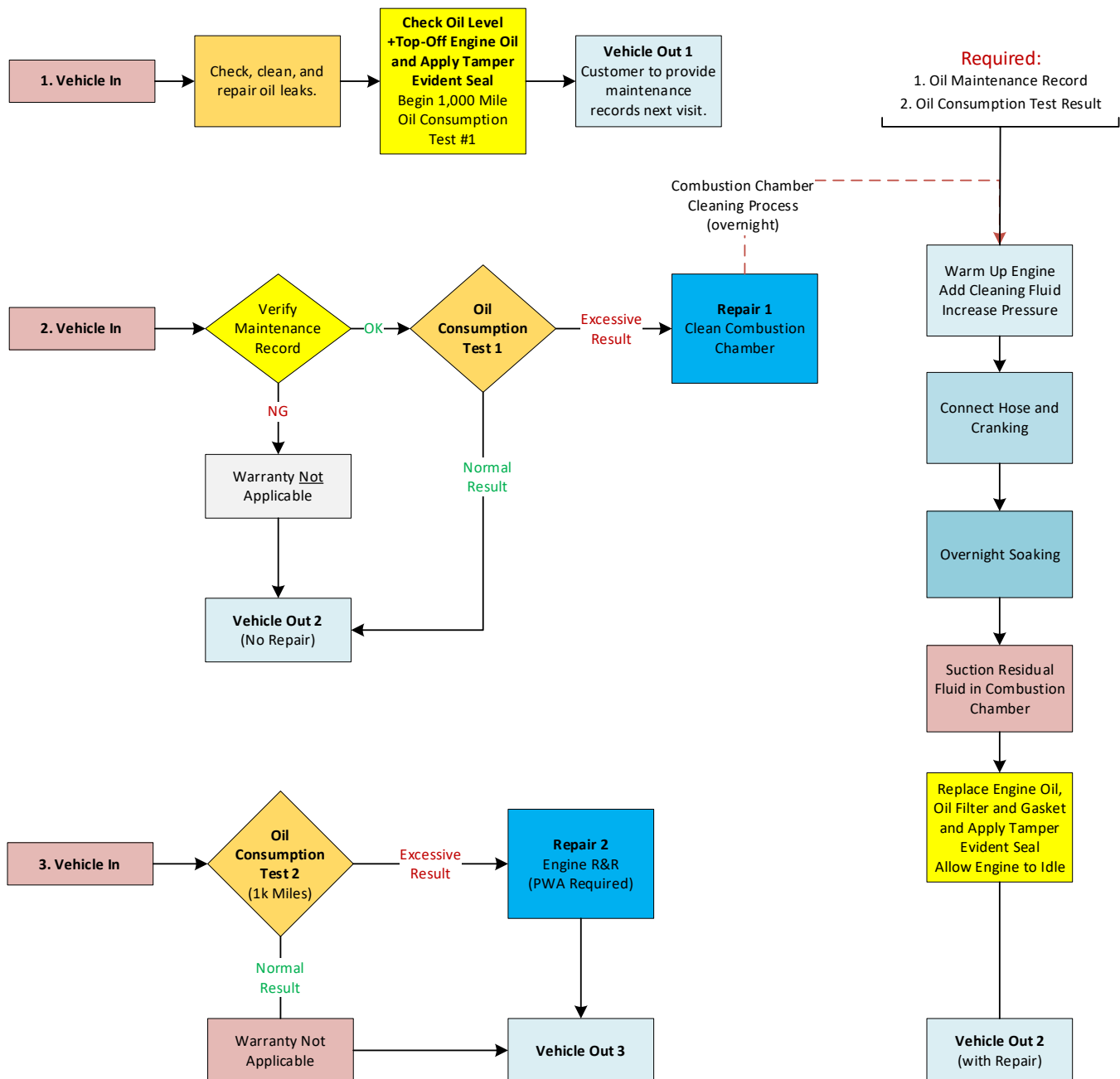


Printed TSB copy is for reference only; information may be updated at any time.  
Always refer to KGIS for the latest information.

Circulate To: ☒ General Manager ☒ Service Manager ☒ Parts Manager  
☒ Service Advisors ☒ Technicians ☒ Body Shop Manager ☒ Fleet Repair

**SUBJECT: EXCESSIVE OIL CONSUMPTION - NU/GAMMA/THETA/KAPPA ENGINES**
**Flowchart:**

Refer to page 3 for additional information and instructions.



**Note:** Engine replacement requires TL PWA with Oil Consumption results.

**❗ IMPORTANT**

Following an oil and filter change, always set the next recommended service interval reminder per the owner's manual. Refer to [TSB ENG219](#) for the applicable Service Reminder feature found on some 2014~ model vehicles.

**Oil Consumption Test:****A. Engine Oil Inspection (Preparation for Test 1)**

1. Check if an oil leak is present. (**Note:** If an oil leak is confirmed, the oil leak source needs to be repaired prior to performing the outlined procedure in this publication).
2. Turn the engine 'ON' for about 10-15 minutes until reaching normal operating temperature. Ensure the temperature gauge reads at the 1/2 mark.
3. Turn the engine 'OFF' and open the oil filler cap. (**Note:** Wait for the engine oil to drop to the oil pan for about 15 minutes).
4. Check the oil level using the oil level gauge/dipstick and document the reading in the RO.
5. If engine oil top off is required, fill the engine oil to the 'F' (Full) line on the level gauge/dipstick. Refer to page 6, step 10 for required oil type and viscosity.
6. Re-install the engine oil filler cap and oil level gauge and apply a tamper evident silicone seal to the drain plug, oil filter, dipstick and oil cap. **Vehicle Out 1.**

**B. Engine Oil Inspection (After 1k Miles of Driving)**

1. Repeat steps from section A. 1-4.
2. Calculate the oil consumption amount as follows (Result = Refer to Flowchart on page 2):

$$\text{Oil Consumption amounts (Mile/qt)} = \frac{\text{Driving Distance (Mile)}}{\text{Oil Replenishment amounts after driving (qt)}}$$

- If the oil consumption amount is less than 1qt/1,000 miles, **Normal** consumption, **No Repair**.
  - If the oil consumption amount is over 1qt/1,000 miles, **Excessive** perform **Repair 1** (Clean Combustion Chamber, pages 4-6).
  - Replace the engine oil, oil filter and gasket and apply a tamper evident silicone seal to the drain plug, oil filter, dipstick and oil cap.
3. Top-off the engine oil to the 'F' (Full) line of the oil level gauge/dipstick. Refer to page 6, step 10 for required oil type and viscosity.
  4. Re-install the engine oil filler cap and oil level gauge/dipstick. **Vehicle Out 2.**

**C. Engine Oil Inspection (After Repair 1 and 1,000 Miles of Driving)**

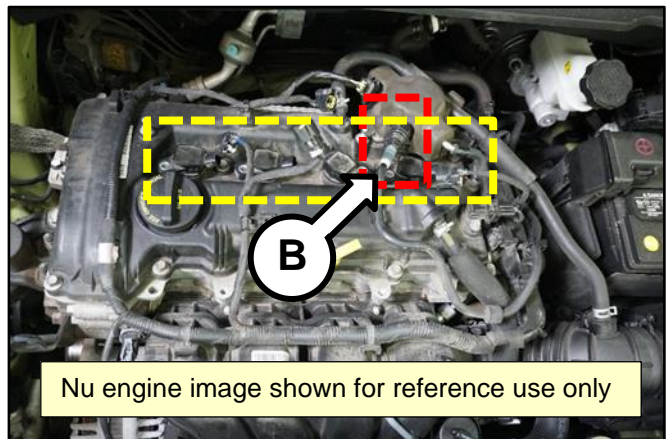
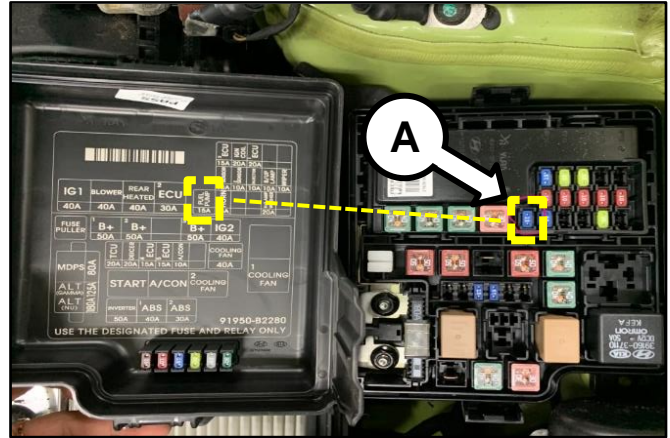
1. Repeat steps from section B. 1-2.
  - If the oil consumption amount is less than 1qt/1,000 miles, **Normal** consumption, **No Repair**
  - If the oil consumption amount is over 1qt/1,000 miles, **Excessive** perform **Repair 2** (Engine R&R, page 7).
2. Top-off the engine oil to the 'F' (Full) fill line of the oil level gauge/dipstick. Refer to page 7, step 1 for required oil type and viscosity.
3. Re-install the engine oil filler cap and oil level gauge/dipstick. **Vehicle Out 3.**



**Cleaning Procedure (Combustion Chamber):****\* NOTICE**

This procedure requires overnight soaking, place vehicle in an area with adequate space.

- 1a. Start the engine and allow it to reach operating temperature.
- 1b. Turn the engine 'OFF'.
- 1c. Remove the engine junction box cover and remove the fuel pump fuse (A).
- 1d. Start the engine and allow it stall.
- 1e. Remove the engine cover and disconnect the battery negative (-) terminal.
- 2a. Disconnect the fuel control connector (B).
- 2b. Disconnect the four (4) ignition coil connectors
- 2c. Remove the four (4) spark plugs.



Nu engine image shown for reference use only

**WARNING**

Fuel vapors are flammable. Death or serious injury can result if they are ignited. Make sure there are no open flames or smoking in the area of the repair. Adequate ventilation is necessary to prevent a build-up of fumes which could ignite, causing fire or explosion.

3. Inject the cleaning fluid into the cylinders through the spark plug holes.

Using the supplied syringe add at least 1.7oz (50cc) to each cylinder.

**Specification:** Min. 1.7oz (50cc) / Max 2.2oz (66.5cc)





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4. Using SST 09580 3D100 pressurize each cylinder under pneumatic pressure (-2~3 bar) for three (3) minutes.

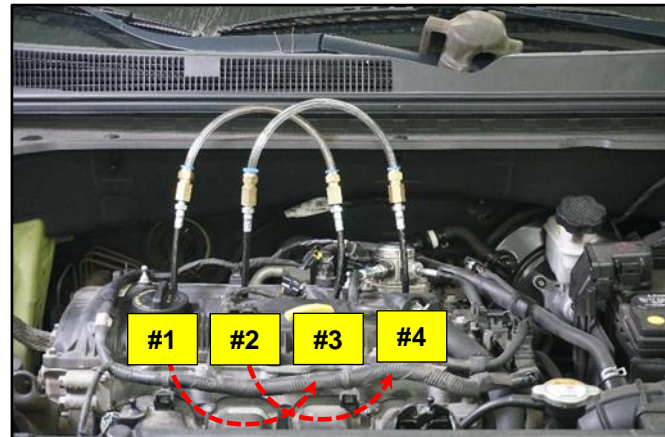
**Note:** Before pressurizing, set the associated cylinder to TDC.



- 5a. Connect the four (4) hoses & adaptors to each cylinder as shown.

**Note:** Connect Cyl. #1 to #3 and #2 to #4.

- 5b. Reconnect battery negative (-) terminal.
- 5c. Crank the engine for 3 seconds / 3 times.



- 6a. Disconnect the hose and inject 1.7oz (50cc) min. of the cleaning fluid to each cylinder (1-4).

**Specification:** Min. 1.7oz (50cc) / Max 2.2oz (66.5cc)

- 6b. Disconnect the battery negative (-) terminal.



7. Allow the vehicle to sit overnight (at least 8 hours).

**CAUTION: Do Not** turn the engine 'ON' until completion of the cleaning procedure.

Proceed to step 8 **after** overnight soaking.



**CONTINUED AFTER 8 HOURS (OVERNIGHT SOAKING):**

- 8a. Remove the residual washing liquid in combustion chamber using the syringe or suction tool.

**Note:** For best results, a pneumatic suction tool is recommended.

- 8b. Reconnect battery negative (-) terminal.



9. Place a clean towel/shop rag over the spark holes. Crank the engine for 3-5 seconds, 3 times.

**CAUTION**

If spark plug holes are not sufficiently covered, fluid may spray into the air, potentially causing injury. An assistant may be needed. Wear safety glasses while performing this step.



10. Replace the engine oil and filter and apply a tamper evident silicone seal to the drain plug, oil filter dipstick and oil filler cap.

Engine crankcase oil specification and fill capacity: 5W-30 engine oil

**Refer to KGIS for oil level capacity.**

**Required Product:** QUARTZ 9000 FUTURE FGC 5W-30 Full Synthetic SN PLUS, QUARTZ 9000 FUTURE XT 5W30 Full Synthetic SN PLUS, Mobil Super Synthetic 5W30 or above. **If not available**, use other brand 5W30 and Full synthetic type with API SN/SN+/SP, ILSAC GF4/GF5 or higher service grade.

11. Reinstall all removed parts in the reverse order of removal.
12. Re-connect the fuel pump relay in the fuse box.
13. Allow the engine to idle for 10 minutes and accelerate the engine to 3,000rpm, 3 times.



**Engine Replacement Procedure:****2.0L Nu GDI / 1.6L GDI Gamma / 2.0L T-GDI and 2.4L GDI Theta Engines)**

1. Replace the engine by referring to the “Engine Mechanical System → Engine and Transaxle Assembly → Engine and Transaxle Assembly → Repair procedures” chapter in the applicable Shop Manual on KGIS.

Replace the engine oil, oil filter and oil plug gasket.

Engine crankcase oil specification and fill capacity: 5W-30 engine oil:

**Refer to KGIS for oil level capacity.**

**Required Product:** QUARTZ 9000 FUTURE FGC 5W-30 Full Synthetic SN PLUS, QUARTZ 9000 FUTURE XT 5W30 Full Synthetic SN PLUS, Mobil Super Synthetic 5W30 or above.


**If not available,** use other brand 5W30 and Full synthetic type with API SN/SN+/SP, ILSAC GF4/GF5 or higher service grade.



**SUBJECT: EXCESSIVE OIL CONSUMPTION - NU/GAMMA/THETA/KAPPA ENGINES**
**AFFECTED VEHICLE RANGE:**

Model	Model Year
Forte (YD, YDm, BD, BDm)	2014-2021
Niro (DE HEV)	2017-2020
Soul (AM, PS, SK3)	2012 to 2021
Sportage (SL, QL, QF)	2011 to 2018
Optima (TF, JF, JFa)	2011 to 2018
Sorento (XMa, UMa)	2012 to 2018
Rio (UB, SC)	2012-2021
Stinger (CK)	2018-2021
Seltos (SP2), Sorento (MQ4 P/HEV)	2021
K5 (DL3a)	2022

**REQUIRED TOOL:**

Tool Name		Figure	Comments
Cleaning Fluid	UM020 CH265		For each engine, utilize initial supply of 99F00 AQ019FFF (qty. 4 per vehicle) Once depleted, use 1 bottle of (Valvoline #884526) per vehicle Additional chemical can be ordered through Kia Chemicals
Cleaning Kit	KQ234 C6100FFF		<b>All Components</b> For replacement kits and/or components, contact Snap-On Business Solutions
M12 GDI Adaptor	KQ234 C6101FFF		4
M12 MPI Adapter	KQ234 C6201FFF		4
Hose	KQ234 C6102FFF		2
Syringe and hose	KQ234 C6103FFF		2
Pressurization Adapter	KQ234 C6104FFF		1
Kit Case	KQ234 C6105FFF		1




**SUBJECT: EXCESSIVE OIL CONSUMPTION - NU/GAMMA/THETA/KAPPA ENGINES**
**'LONG BLOCK' REPLACEMENT MODELS: (Pages 13-19)**

MY	Model	Engine
2012-2016	Soul (AM/PS)	Gamma 1.6L GDI
2014-2019	Soul (PS)	Nu 2.0L GDI
2011-2018	Optima (TF, JF, JFa), Sportage (SL, QF, QL), Sorento (XMa, UMa)	Theta 2.0L T-GDI and 2.4L GDI

**>>> All other model vehicles are 'SHORT BLOCK' replacement. (Pages 20-22) <<<**

**REQUIRED PART: (NU 2.0L GDI ENGINE)**

Part Name	Part Number (Non-ISG)	Part Number (ISG)	Figure	Qty.
Engine Long Block (14-16MY)	21101 2EG01FFFR	21101 2EG02FFFR		1
Engine Long Block (17-19MY)	21101 2EG03FFFR	21101 2EG04FFFR		
Fuel Tube	35305 2E510FFF			1
Part Name	Kit Part Number	Part Number	Description	Qty.
 Engine Service Kit	21111 2EG01FFF	26611 2E022	Rod Assy – Oil Level	1
		28521 2E000	Gasket – Exhaust Manifold	1
		28313 2E000	Gasket – Intake Manifold	1
		35312 2G750	Injector O-ring Kit (Combustion Seal Ring) 35312 2B110 (Support Disc) 35312 2B111 (O-Ring) 35312 2B112	4
		35309 2B110	Injector Clip	4
		35313 2B110	Injector Washer	4
		35322 2G700	High-Press. Pump O-ring	1
		11405 06206K	High-Press. Pump Bolt	2
		28751 2B300	Gasket - Front Muffler	1
		13183 12000	Nut - Front Muffler	2
		39250 2E000	Knock Sensor	1
		11403 08306K	Bolt - Flange	1
		25460 2E006	Pipe Assembly – Heater	1
		25480 2E000	Hose Assembly – Heater	1
		25456 2E100	Bolt – Washer Assembly	2

**\*FFF part may be shipped if FFFR is not available.**






**SUBJECT: EXCESSIVE OIL CONSUMPTION - NU/GAMMA/THETA/KAPPA ENGINES**
**REQUIRED PART: (GAMMA 1.6L GDI ENGINE)**

Part Name	Part Number (Non-ISG)	Part Number (ISG)	Figure	Qty.
Engine Long Block (12-13MY)	21101 2BK01FFFR	21101 2BK02FFFR		1
Engine Long Block (14-16MY)	21101 2BK03FFFR			
Fuel Tube	35305 2B000FFF			1
Part Name	Kit Part Number	Part Number	Description	Qty.
Engine Service Kit 1	 21111 2BS01FFF	26611 2B611	Rod Assy – Oil Level	1
		26612 2G601	Guide Assy – Oil Level	
		28521 2B400	Gasket – Exhaust Manifold	1
		28411 2B600	Gasket – Intake Manifold	1
		35312 2G750	Injector O-ring Kit (Combustion Seal Ring) 35312 2B110 (Support Disc) 35312 2B111 (O-Ring) 35312 2B112	4
		23124 2B020	Pulley - Damper	1
		23127 2B700	Bolt – Crank Pulley	1
		35313 2B110	Injector Washer	4
		35322 2G700	High-Press. Pump O-ring	1
		11405 06206K	High-Press. Pump Bolt	2
		26614 2B000	O-RING (OIL LEVEL GUIDE)	1
Engine Service Kit 2	 21112 2BS01FFF	25452 2B000	Gasket – Heater Pipe	1
		25457 2B000	Pipe – Heater	1
		11403 08126K	Bolt – Flange	1
		13396 06007K	Nut – Flange	2
		21516 35010	Bolt – Flange (6X12)	1
		25500 2B000	Thermostat Assy	1
		25600 2B600	Control Assy – Water Temp	1
		25631 2B051	Fitting Assy – Water Inlet	1
		11403 06207S	Bolt – Flange	3
		13386 08007C	Nut – Flange	2
		26300 35505	Filter Assy – Oil	1
		39250 2B000	Knock Sensor	1
		11403 08306K	Bolt - Flange	1
		28751 2B200	Gasket – Front Muffler	1
		13183 12000	Nut – Front Muffler	2

**\*FFF part may be shipped if FFFR is not available.**

**SUBJECT: EXCESSIVE OIL CONSUMPTION - NU/GAMMA/THETA/KAPPA ENGINES**
**REQUIRED PART: (THETA GDI ENGINES)**






Model	Description	Part Number	Figure	Qty.
ALL	Engine Long Block (see below)	Applicable P/N (see below)		1
Model	Production Year	Part Number		Qty.
		2.0L T-GDI	2.4L GDI	
SL	11-13MY	21101 2GK07QQKR*	N/A	1
TF QF		21101 2GK07QQKR*	21101 2GK05QQKR*	
XMa	12-13MY	N/A	21101 2GK09QQKR*	
	14MY (ULEV)		21101 2GK11QQKR*	
	14MY (SULEV)			
UMa	15-17MY	21101 2GK32QQKR*	21101 2GK31QQKR*	
	18MY		21101 2GK33QQKR*	
QF	14-15MY	21101 2GK08QQKR*	21101 2GK06QQKR*	
TF	14-15MY	N/A		
SL	14-16MY	21101 2GK37QQKR*	21101 2GK36QQKR*	
JF/JFa	16-18MY	21101 2GK32QQKR*	21101 2GK34QQKR*	
QL	17-18MY	21101 2GK39QQKR*	21101 2GK35QQKR*	
Models	Description	Part Number	Figure	Qty.
ALL	Oil Cooler Tube Assembly	25470 2G050QQK**		1
AT	Drive Plate Bolts	23311 25050		7
M/T		23231 25200		

**\*QQK part may be shipped if QQKR is not available. \*\*Oil Cooler Tube assembly replacement is conditional.**

**Continued on page 12...**



**SUBJECT: EXCESSIVE OIL CONSUMPTION - NU/GAMMA/THETA/KAPPA ENGINES**
**REQUIRED PART: (THETA GDI ENGINES)**

Model	Description		Image		Comment	
ALL	Service Kit I				One (1) per engine.	
MY / Model	Description		Service Kits		Qty.	
			2.4 GDI	2.0 T-GDI		
14-16MY (SL) 14-15MY (TF) 15MY (QF)	Service Kit I		21111 2GK50QQK	21111 2GK60QQK	1	
15MY			XMa	21111 2GK50QQK		N/A
16-18MY			JF JFa	21111 2GK51QQK		21111 2GK52QQK
15-18MY			UMa	21111 2GK51QQK		21111 2GK52QQK
17-18MY			QL	21111 2GK51QQK		21111 2GK52QQK
ALL	Service Kit II				One (1) per engine.	
MY / Model	Description		Service Kits		Qty.	
			2.4 GDI	2.0 T-GDI		
14~16MY SL 14~15MY TF 15MY QF	Service Kit II		21111 2GK70QQK		1	
15MY			XMa	21111 2GK70QQK		N/A
15~18MY			UMa	21111 2GK71QQK		21111 2GK72QQK
17~18MY			QL	21111 2GK71QQK		21111 2GK72QQK
16~18MY			JF JFa	21111 2GK71QQK		21111 2GK72QQK
ALL	Drive Plate Bolts				Req. Qty. 7 per vehicle	
			23311 25050 (AT) 23231 25200 (M/T)			
ALL	Oil Cooler Tube Assembly				Replacement is conditional	
			25470 2G050QQK	25470 2G650QQK		



**SUBJECT: EXCESSIVE OIL CONSUMPTION - NU/GAMMA/THETA/KAPPA ENGINES**
**WARRANTY INFORMATION: NU 2.0L GDI (PS)**
**N Code: E74 C Code: ZZ1**

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
W	Valve Stem Seal (Refer to EPC)	0	Vehicle In (1) Engine Oil Top-Off (Request Svc Record)	21101F71	0.6 M/H	*Engine Oil Allowance	0
			Vehicle In (2) Oil Consumption Test #1 (Normal Consumption)	21101F73	0.6 M/H	N/A	0
			Vehicle In (2) Oil Consumption Test #1 (Excessive Consumption) +Combustion Chamber Cleaning + Vehicle In (2) Engine Oil Replacement (Request Svc Record)	21101F72	2.7 M/H	*UM020 CH265	0
						*Engine Oil Allowance	
			Vehicle In (3) Oil Consumption Test #2 (Normal Consumption) <b>(PS) 14-16MY</b>	21101F73	0.6 M/H	N/A	0
			Vehicle In (3) Oil Consumption Test #2 (Normal Consumption) <b>(PS) 17-19MY</b>				
	Piston Ring (Refer to EPC)	0	Vehicle In (3) Oil Consumption Test #2 + Engine R&R <b>(PS) 14-16MY</b>	21101F74	7.2 M/H	21101 2EG01FFFR or 21101 2EG02FFFR	1
						35305 2E510FFF	
						21111 2EG01FFF	
			21101 2EG03FFF or 21101 2EG04FFF				
			35305 2E510FFF				
			21111 2EG01FFF				
			26300 35505				
			21513 23001				

**\*FFF part may be shipped if FFFR is not available.**

**Note:** For fluids and other expenses refer to page 20.



**SUBJECT: EXCESSIVE OIL CONSUMPTION - NU/GAMMA/THETA/KAPPA ENGINES**
**WARRANTY INFORMATION: GAMMA 1.6L GDI (AM)**
**N Code: E74 C Code: ZZ1**

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
W	Valve Stem Seal (Refer to EPC)	0	Vehicle In (1) Engine Oil Top-Off (Request Svc Record)	21101F75	0.6 M/H	*Engine Oil Allowance	0
			Vehicle In (2) Oil Consumption Test #1 (Normal Consumption)	21101F77	0.6 M/H	N/A	0
			Vehicle In (2) Oil Consumption Test #1 (Excessive Consumption) +Combustion Chamber Cleaning + Vehicle In (2) Engine Oil Replacement (Request Svc Record)	21101F76	2.5 M/H	*UM020 CH265	0
						*Engine Oil Allowance	
	Piston Ring (Refer to EPC)	0	Vehicle In (3) Oil Consumption Test #2 (Normal Consumption) <b>(AM) 12-13MY</b>	21101F77	0.6 M/H	N/A	0
			Vehicle In (3) Oil Consumption Test #2 + Engine R&R <b>(AM) 12-13MY</b>	21101F78	7.2 M/H	21101 2BK01FFFR or 21101 2BK02FFFR	1
						35305 2B000FFF	
						21111 2BS01FFF	
						21112 2BS01FFF	
						26300 35505	
						21513 23001	

***\*FFF part may be shipped if FFFR is not available.***
**Note: For fluids and other expenses refer to page 20.**

**SUBJECT: EXCESSIVE OIL CONSUMPTION - NU/GAMMA/THETA/KAPPA ENGINES**
**WARRANTY INFORMATION: GAMMA 1.6L GDI (PS)**
**N Code: E74 C Code: ZZ1**

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
W	Valve Stem Seal (Refer to EPC)	0	Vehicle In (1) Engine Oil Top-Off (Request Svc Record)	21101F79	0.6 M/H	*Engine Oil Allowance	0
			Vehicle In (2) Oil Consumption Test #1 (Normal Consumption)	21101F81	0.6 M/H	N/A	0
			Vehicle In (2) Oil Consumption Test #1 (Excessive Consumption) +Combustion Chamber Cleaning	21101F80	2.5 M/H	*UM020 CH265	0
						*Engine Oil Allowance	
	Piston Ring (Refer to EPC)	0	Vehicle In (3) Oil Consumption Test #2 (Normal Consumption) <b>(PS) 14-16MY</b>	21101F81	0.6 M/H	N/A	0
			Vehicle In (3) Oil Consumption Test #2 + Engine R&R <b>(PS) 14-16MY</b>	21101F82	7.2 M/H	21101 2BK03FFFR	1
						35305 2B000FFF	
						21111 2BS01FFF	
						21112 2BS01FFF	
						26300 35505	
						21513 23001	

***\*FFF part may be shipped if FFFR is not available.***

**Note: For fluids and other expenses refer to page 20.**



**SUBJECT: EXCESSIVE OIL CONSUMPTION - NU/GAMMA/THETA/KAPPA ENGINES**
**WARRANTY INFORMATION: THETA 2.0L T-GDI (TF, QF, JF, JFa, SL, QL, UMA)**
**N Code: E74 C Code: ZZ1**

Claim Type	Model	Causal P/N	Qty	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty
W	ALL	Valve Stem Seal (Refer to EPC)	0	Vehicle In (1) Engine Oil Top-Off (Request Svc Record)	21000F00	0.6 M/H	*Engine Oil Allowance	0
				Vehicle In (2) Oil Consumption Test #1 (Normal Consumption)	21000F02	0.6 M/H	N/A	0
				Vehicle In (2) Oil Consumption Test #1 (Excessive Consumption) +Combustion Chamber Cleaning	21000F01	2.5 M/H	*UM020 CH265	0
							*Engine Oil Allowance	
	Vehicle In (3) Oil Consumption Test #2 (Normal Consumption)	21000F02		0.6 M/H	N/A	0		
	TF	Piston Ring (Refer to EPC)		Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F05	6.3 M/H	21101 2GK07QQKR <b>21101 2GK07QQKR***</b> 21111 2GK60QQK 21111 2GK70QQK 23311 25050* (Qty. 7) 25470 2G650QQK**	1
	21000F07				(2011-2013MY) <b>21101 2GK07QQKR***</b> (2014MY) <b>21101 2GK08QQKR***</b> 21111 2GK60QQK 21111 2GK70QQK 23311 25050* (Qty. 7) 25470 2G650QQK**			
	JF				21000F09	6.8 M/H	<b>21101 2GK32QQKR***</b> 21111 2GK52QQK 21111 2GK72QQK 23311 25050* (Qty. 7) 25470 2G650QQK**	
	JFa		21000F11					
	SL (FWD)		21000F13		6.2 M/H	<b>21101 2GK37QQKR***</b> 21111 2GK60QQK 21111 2GK70QQK 23311 25050* (Qty. 7) 25470 2G650QQK**		
	SL (AWD)		21000F15		6.6 M/H			



**SUBJECT: EXCESSIVE OIL CONSUMPTION - NU/GAMMA/THETA/KAPPA ENGINES**

	QL (FWD)				21000F17	6.7 M/H	<b>21101 2GK39QQKR</b> 21111 2GK52QQK 21111 2GK72QQK 23311 25050* (Qty. 7) 25470 2G650QQK**	
	QL (AWD)				21000F19	7.1 M/H		
	UMa (FWD)				21000F23	6.6 M/H	<b>21101 2GK32QQKR***</b> 21111 2GK52QQK 21111 2GK72QQK 23311 25050* (Qty. 7) 25470 2G650QQK**	
	UMa (AWD)				21000F25	7.0 M/H		
W	ALL	Piston Ring (Refer to EPC)	0	SCC Calibration (Add-On)	21000F03	0.5 M/H	N/A	0

***\*QQK part may be shipped if QQKR is not available.***

**Note:** For fluids and other expenses refer to page 20.



**SUBJECT: EXCESSIVE OIL CONSUMPTION - NU/GAMMA/THETA/KAPPA ENGINES**
**WARRANTY INFORMATION: THETA 2.4L GDI (TF, QF, JF, JFA, SL, QL, XMA, UMA)**
**N Code: E74 C Code: ZZ1**

Claim Type	Model	Causal P/N	Qty	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty
W	ALL	Valve Stem Seal (Refer to EPC)	0	Vehicle In (1) Engine Oil Top-Off (Request Svc Record)	21000F00	0.6 M/H	*Engine Oil Allowance	0
				Vehicle In (2) Oil Consumption Test #1 (Normal Consumption)	21000F02	0.6 M/H	N/A	0
				Vehicle In (2) Oil Consumption Test #1 (Excessive Consumption) +Combustion Chamber Cleaning	21000F01	2.5 M/H	*UM020 CH265	0
							*Engine Oil Allowance	
	Vehicle In (3) Oil Consumption Test #2 (Normal Consumption)	21000F02		0.6 M/H	N/A	0		
	TF	Piston Ring (Refer to EPC)		Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F04	5.8 M/H	(2011-2013MY) <b>21101 2GK05QQKR***</b> (2014MY) <b>21101 2GK06QQKR***</b> 21111 2GK50QQK 21111 2GK70QQK 23311 25050* (AT) Qty.7 23231 25200* (MT) Qty.7 25470 2G050QQK**	1
							21000F06	
					21000F08	5.9 M/H		
			21000F10					
			21000F12		5.7 M/H	<b>21101 2GK36QQKR***</b> 21111 2GK50QQK 21111 2GK70QQK 23311 25050* (Qty. 7) 25470 2G050QQK**		
			21000F14		6.2 M/H			
	QF							
	JF							
	JFa							
	SL (FWD)							
SL (AWD)								

**SUBJECT: EXCESSIVE OIL CONSUMPTION - NU/GAMMA/THETA/KAPPA ENGINES**

	QL (FWD)				21000F16	5.6 M/H	<b>21101 2GK35QQKR***</b> 21111 2GK51QQK 21111 2GK71QQK 23311 25050* ( <b>Qty. 7</b> ) 25470 2G050QQK**	
	QL (AWD)				21000F18	6.0 M/H		
	XMa (FWD)				21000F20	5.6 M/H	<b>21101 2GK11QQKR</b> 21111 2GK50QQK 21111 2GK70QQK 23311 25050* ( <b>Qty. 7</b> ) 25470 2G050QQK**	
	XMa (AWD)				21000F21	6.0 M/H		
	UMa (FWD)				21000F22	5.8 M/H	2016-2017MY) <b>21101 2GK31QQKR</b> (2018MY) <b>21101 2GK33QQKR</b> 21111 2GK51QQK 21111 2GK71QQK 23311 25050* ( <b>Qty.7</b> ) 25470 2G050QQK	
	UMa (AWD)				21000F24	6.2 M/H		
W	ALL	Piston Ring (Refer to EPC)	0	SCC Calibration (Add-On)	21000F03	0.5 M/H	N/A	0

**\*QQK part may be shipped if QQKR is not available.**

**Note: For fluids and other expenses refer to page 20.**



**SUBJECT: EXCESSIVE OIL CONSUMPTION - NU/GAMMA/THETA/KAPPA ENGINES**
**'SHORT BLOCK' REPLACEMENT ONLY:**

Claim Type	Model	Causal P/N	Qty	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty
W	ALL	Piston Ring (Refer to EPC)	0	Vehicle In (1) Engine Oil Top-Off (Request Svc Record)	21000F26	0.6 M/H	*Engine Oil Allowance	0
				Vehicle In (2) Oil Consumption Test #1 (Normal Consumption)	21000F27	0.6 M/H	N/A	
				Vehicle In (2) Oil Consumption Test #1 (Excessive Consumption) +Combustion Chamber Cleaning + Vehicle In (2) Engine Oil Replacement (Request Svc record)	21000F28	2.5 M/H	UM020 CH265 and *Engine Oil Allowance	0
					21000F29	2.7 M/H		
				Vehicle In (3) Oil Consumption Test #2 (Normal Consumption)	21000F30	0.6 M/H	N/A	0
W	BD (19MY)	Piston Ring (Refer to EPC)	0	Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F33	10.7 M/H	Refer to EPC (Gamma) Short Block 1.6L MPI/GDI 1.6L T-GDI	1
	BDm (20-21MY)			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F34	10.7 M/H		
	DL3a (21MY) FWD			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F35	10.3 M/H		
	DL3a (21MY) AWD			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F59	10.6		
	JFa (16-20MY)			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F36	10.3 M/H		
	MQ4 PHEV (21MY) FWD			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F37	11.5 M/H		
	MQ4 PHEV (21MY) AWD			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F60	11.9		
	SC (18-21MY)			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F38	10.4 M/H		
	SK3 (19-21MY)			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F39	10.8 M/H		
	SP2 (21MY) FWD			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F40	10.6 M/H		
	SP2 (21MY) AWD			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F61	10.9		
	UB (12-17MY)			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F41	9.7 M/H		
	YD (14-17MY)			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F42	10.6 M/H		
	YDm (17-18MY)			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F43	10.6 M/H		



**SUBJECT: EXCESSIVE OIL CONSUMPTION - NU/GAMMA/THETA/KAPPA ENGINES**

Claim Type	Model	Causal P/N	Qty	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty
W	AM (12-13MY)	Piston Ring (Refer to EPC)	0	Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F44	9.9 M/H	Refer to EPC (Nu) Short Block Assy 2.0L MPI	1
	BD (19MY)			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F45	9.7 M/H		
	BDm (19-21MY)			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F46	9.7 M/H		
	JF HEV (16-20MY)			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F47	11.5 M/H		
	SK3 (19-21MY)			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F48	10.4 M/H		
	SP2 (21MY) FWD			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F49	9.7 M/H		
	SP2 (21MY) AWD			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F62	10.0		
	YD (14-18MY)			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F50	9.8 M/H		
	YDm (17-18MY)			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F51	9.8 M/H		
	CK (18-21MY) RWD	Piston Ring (Refer to EPC)	0	Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F52	11.6 M/H	Refer to EPC (Theta) Short Block 2.0L/2.4L 2.0L T-GDI	1
	CK (18-21MY) AWD			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F63	11.9		
	MG (07-10MY)			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F53	10.7 M/H		
	MQ4a (21MY) FWD			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F54	10.8 M/H		
	MQ4a (21MY) AWD			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F64	11.2		
	TD (10-13MY)			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F55	10.2 M/H		
	TF HEV (11-16MY)			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F56	12.3 M/H		
	UN (09-10MY)			Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F57	10.1 M/H		
	DE HEV (17-20MY)	Piston Ring (Refer to EPC)	0	Vehicle In (3) Oil Consumption Test #2 + Engine R&R	21000F58	11.3 M/H	Refer to EPC (Kappa) Short Block 1.6L GDI	1



**SUBJECT: EXCESSIVE OIL CONSUMPTION - NU/GAMMA/THETA/KAPPA ENGINES****WARRANTY CLAIM INFORMATION APPENDIX**

Expense Description	Sublet code / Part Number	Expense policies and requirements	Sublet Limit/Quantity
Engine Oil	Refer to Kia chemicals program for synthetic oil part numbers provided by Kia.	Refer to page 6-7 of TSB for recommended TOTAL engine oil products. Charge quantity needed for "Oil Top-Off" or Oil change for engine replacement according to technician repair comments.	5 QT max.
Cleaning Fluid	UM020 CH265	Refer to page 7 of TSB. After provided supply is depleted, use 1 bottle of Valvoline #884526 per vehicle	1 max.
Engine Oil Reimbursement	Sublet Code "X1"	Refer to page 6-7 of TSB. If recommended product is not used charge for other brand (see page 6-7) up to maximum allowance. For "Oil Top-Off", charge up to \$7.50 per quart.	a. <b>\$50.00</b> for engine R&R b. <b>\$7.50</b> per quart for engine oil top-off
Substitute Transportation	Sublet Code "RX"	If necessary, for combustion cleaning and engine R&R, follow normal service procedures according to WCPM section 2.2.12 for rental/rideshare expense reimbursement.	Refer to section 6.11 of SPPM

**Note:** Attach a copy of the entire RO using attachment type "XX-Other".

**IMPORTANT: Claim Submission Information**

- ❖ Confirm Warranty Coverage Validation (WebDCS).
- ❖ Engine replacement requires TL PWA with Oil Consumption results.
- ❖ Dealer repair order documentation must support the repair sequence per flowchart
  - ✓ First visit
  - ✓ Second visit
  - ✓ Third visit
- ❖ Manually enter all warranty claim entries and expenses into each claim
- ❖ Provide clear and concise notes i.e. customer concern, cause, correction
- ❖ A copy of the entire RO is necessary for claim submission. Use attachment code "XX-Other".
- ❖ Confirm claim totals prior to claim submission

For any questions pertaining to claim entry, please create a warranty web case for assistance prior to claim submission.