Caution

Unit ID: **5-BM-2** Asset ID: **50074753**

Description: **Kiln 1 Ball Mill Gear Box**

Account Information

ID: **402009**

Name: **Greer Lime**

Address: **1088 Germany Valley Limestone Road, Riverton, WV 26814-0000 US**

Parent Account: **MATTHEWS LUBRICANTS, INC.**

Sample Information

Sample ID: **25343187037**

Service Level: **Essential**

Bottle ID: **a003623323**

Tested Lubricant: **MOBIL SHC GEAR 220**

Equipment Information

Asset Class: **Gear Drive**

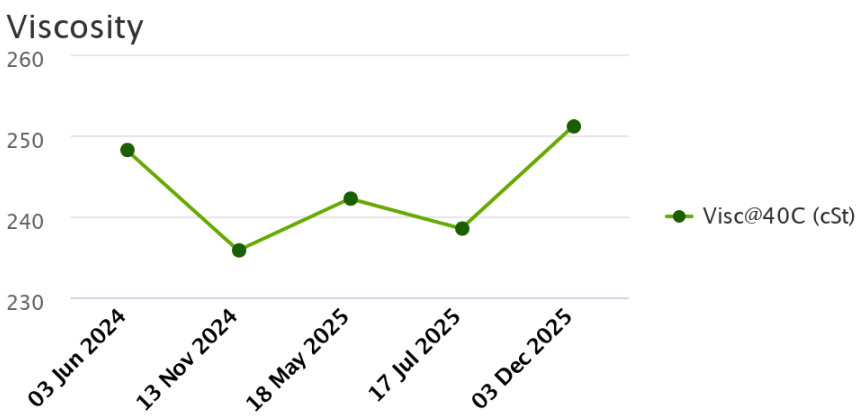
Manufacturer: **FALK (REXNORD)**

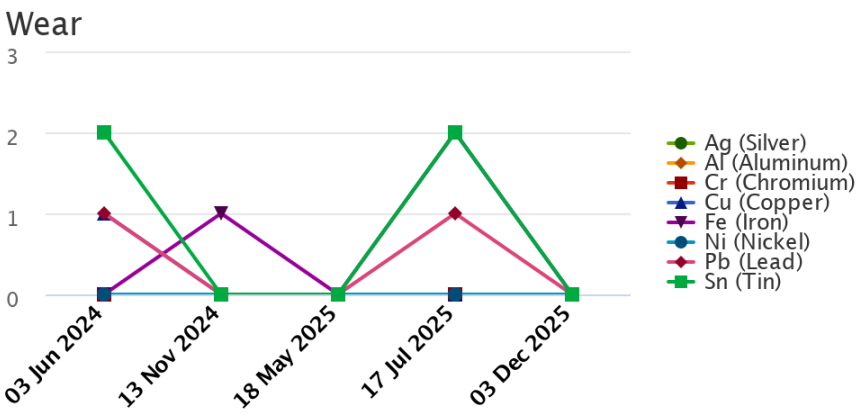
Model: **1090FC2**

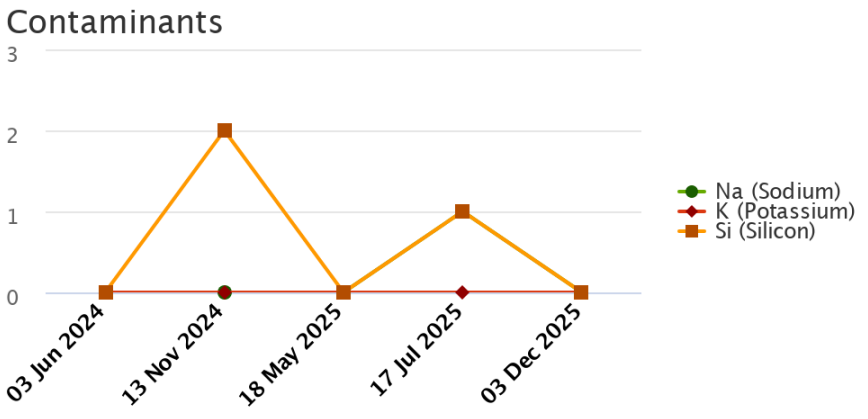
Lubricant: **MOBIL SHC GEAR 220**

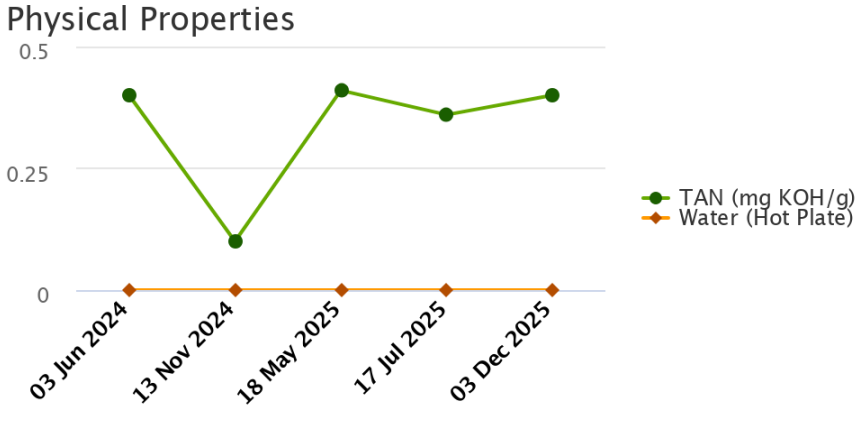
Sample Data & Trends

Sample Info	Report Status	Caution	Normal	Caution	Normal	Caution
	Sample ID	24162579019	24330183020	25147288013	25308280023	25343187037
	Service Level	Essential	Essential	Essential	Essential	Essential
	Bottle ID	a003623010	a033582515	a030135393	a003623520	a003623323
	Tested Lubricant	MOBIL SHC GEAR 220	MOBIL SHC GEAR 220	MOBIL SHC GEAR 220	MOBIL SHC GEAR 220	MOBIL SHC GEAR 220
	Sampled	03 Jun 2024	13 Nov 2024	18 May 2025	17 Jul 2025	03 Dec 2025
	Reported	18 Jun 2024	27 Nov 2024	29 May 2025	06 Nov 2025	11 Dec 2025
	Equipment Age					
	Oil Age					
	Make-up Volume					
	Oil Changed					
	Filter Changed					
Lubricant	Contamination Rating	Normal	Normal	Normal	Normal	Normal
	Equipment Rating	Normal	Normal	Normal	Normal	Normal
	Lubricant Rating	Caution	Normal	Caution	Normal	Caution
	Visc@40C (cSt)	248.2	235.8	242.2	238.5	251.1
	TAN (mg KOH/g)	0.40	0.10	0.41	0.36	0.40
	Water (Hot Plate)	NotDetected	NotDetected	NotDetected	NotDetected	NotDetected
Wear (ppm)	Ag (Silver)	0	0	0	0	0
	Al (Aluminum)	0	0	0	0	0
	Cr (Chromium)	0	0	0	0	0
	Cu (Copper)	1	0	0	0	0
	Fe (Iron)	0	1	0	2	0
	Mo (Molybdenum)	2	0	0	0	0
	Ni (Nickel)	0	0	0	0	0
	Pb (Lead)	1	0	0	1	0
	Sn (Tin)	2	0	0	2	0
Contaminant (ppm)	K (Potassium)	0	0	0	0	0
	Na (Sodium)	0	0	0	1	0
	Si (Silicon)	0	2	0	1	0
Additive (ppm)	B (Boron)	1	0	1	1	0
	Ba (Barium)	0	0	0	0	0
	Ca (Calcium)	3	4	3	1	9
	Mg (Magnesium)	0	0	0	0	0
	P (Phosphorus)	345	378	346	327	371
	Zn (Zinc)	6	1	7	2	11









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Model: **1090FC2**

Lubricant: **MOBIL SHC GEAR 220**

Continued

Recommendation/Comments

ACTION REQUIRED - ELEVATED OIL VISCOSITY. Determine cause of elevated oil viscosity and take corrective action. Elevated viscosities can interfere with the cooling process of components and restrict oil flow causing oil starvation and component wear. Possible causes of elevated viscosity include: a. Contact with oil that has a higher viscosity; b. High rates of oxidation and oil degradation; c. Excessive sediment; d. Coolant contamination. A partial drain and refill with fresh oil may rejuvenate the oil condition. Change the oil immediately if the condition escalates. Contact your ExxonMobil representative for further assistance if necessary.

Sample Timeline

- 03 Dec 2025 10:11 PM UTC - Shawn Turner - In Service Oil Sample Comments: Photo: