

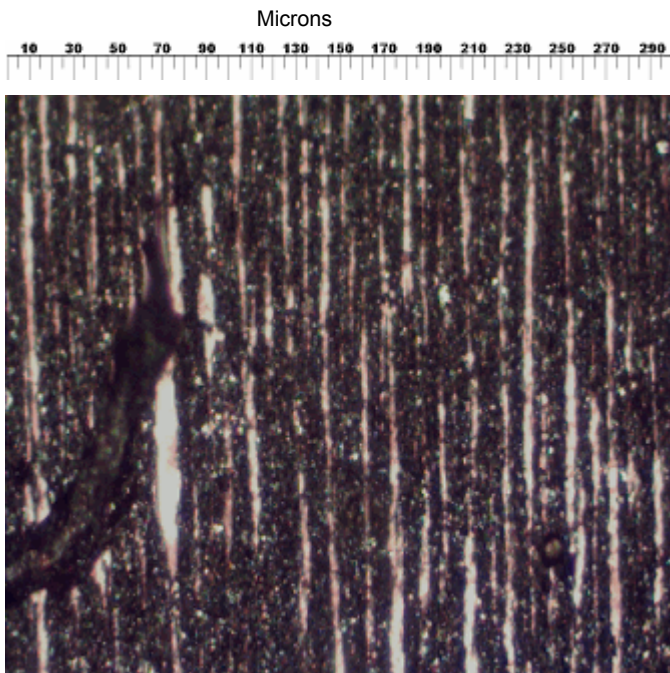
Wear Particle Analysis Report

Lube Type:	MOBIL MOBILGEAR 630	Received:	06/23/2005	ATTN:	Matt McMahon
Machine MFG:	GOULD	Report:	07/07/2005		INSIGHT SERVICES
Machine MOD:		Sample No:	999-1-10-10		12703 TRISKETT ROAD
Machine Type:	Anti-Friction Bearing	Analyst:			CLEVELAND, OH 44111

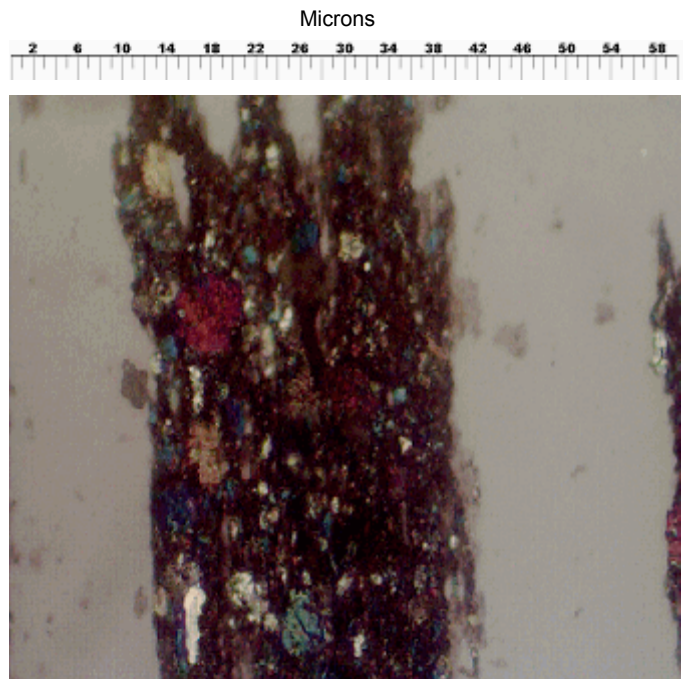
Particle Morphology

	Trace	Light	Moderate	Heavy	Max. Size	Particle Composition
Rubbing Wear	[Red bar]				5-15	Ferrous
Rolling Contact						
Sliding Wear						
Rolling/Sliding Wear						
Cutting Wear						
Chunks	[Yellow bar]				15-30	Ferrous
Spheres						
Corrosion	[Yellow bar]					
Dark Metallic Oxides	[Red bar]					
Red Oxides	[Yellow bar]					
Dust/Dirt	[Yellow bar]					
Other Contaminants	[Yellow bar]					Fibers
Oxidaton By-Products						

Observations: Analytical ferrography detected the following abnormalities: High levels of ferrous rubbing wear up to 15 microns in size. Rubbing wear particles are generated as the result of normal sliding wear in a machine. Excessive particulate contamination in the lubricating system can significantly increase the generation of rubbing wear particles. Heavy levels of dark metallic oxides. Dark metallic oxides, partially oxidized ferrous wear particles, are typically generated under high temperatures and loads.



100x Dark metallic oxides, low alloy and contaminants.



500x Dark metallic oxides, low alloy ferrous particles.