

DE BEERS GROUP

May 4, 2022

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Nahum Lee
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North Slave Regional Office
Department of Lands
Government of the Northwest Territories
140 Bristol Avenue, Yellowknife, NT X1A 3T2

Subject: Follow-Up Spill Report – Hydraulic Oil – Gahcho Kué Mine – April 4, 2022 (GNWT Spill #2022117)

Pursuant to Part H Condition 3(d) of Water License MV2S005L2-0015, De Beers Canada Inc. (De Beers) is submitting this follow-up spill report for GNWT Spill #2022117, which occurred at the Gahcho Kué Mine at 05:30 on April 4, 2022.

An NT-NU Spill Report was completed and submitted via email to the NWT Spills Hotline (spills@gov.nt.ca) at 08:30 on April 6, 2022.

Incident Summary:

On April 4, 2022 at approximately 05:30, the operator of TV-003 was resourcing till in the Tuzo burrow pit, however the area was frozen the operator was scratching the burrow bottom to produce the material required for construction. While doing so, a hydraulic boom cylinder failed, resulting in a significant spill. Upon failure the operator grounded the implement and hit the emergency stop before notifying their supervisor and deploying spill containment.

Immediate Actions:

Once the operator was aware of the malfunction, the equipment was shut down and the pit supervisor and mobile maintenance were notified. The maintenance technician and operator then deployed spill pads, while the mine operations supervisor coordinated the cleanup of contaminated materials and remediation of the area. During the repair process it was noted that the hydraulic reservoir had lost approximately 500L of hydraulic oil due to the malfunction.

The spill occurred in the Tuzo Pit and all contaminated material was removed and loaded out to the Type 3 Area of the West Mine Rock Pile.

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Root Cause:

The cylinder failure was likely due to excessive use against frozen till material, which accelerated the wear of the component leading to failure.

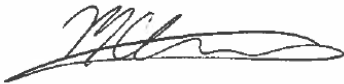
Follow-Up Actions:

The following corrective actions were identified during the internal investigation:

1. Planned preventative maintenance program put in place to review remaining cylinder components life expectancy and schedule replacements for next major services or mid-life.
2. Review incident with crews and ensure operators are operating within specified requirements to prevent similar incidents in the future.
3. Remaining identical stick cylinder warrants change out before releasing back to operations.

Should you have any questions or concerns, or require any additional information, please do not hesitate to contact the undersigned at your convenience.

Sincerely,



Mason Elwood
Environmental Coordinator / Gahcho Kué Mine
867.679.5814
mason.elwood@debeersgroup.com

Attachments:

- Figure 1. Location of GNWT Spill #2022117**
- Figure 2. Photos GNWT Spill #2022117**
- Figure 3. Clean Up Photos GNWT Spill #2022117**
- Figure 4. Updated Spill Report (GNWT Spill #2022117)**

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Figure 1. Location of GNWT Spill #2022117

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Figure 2. Photos GNWT Spill #2022117

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Figure 3. Clean Up Photos GNWT Spill #2022117

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NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND
OTHER HAZARDOUS MATERIALS



NT-NU 24-HOUR SPILL REPORT LINE
Tel: (867) 920-8130 • Email: spills@gov.nt.ca

REPORT LINE USE ONLY

A	Report Date:	04 06 22	Report Time:	8:00 am	<input checked="" type="checkbox"/> Original Spill Report OR <input type="checkbox"/> Update # _____ to the Original Spill Report	Report Number:
	B	Occurrence Date:	04 04 22	Occurrence Time:		
C	Land Use Permit Number (if applicable):	MV2021D0009		Water Licence Number (if applicable):	MV2005L2-0015	
D	Geographic Place Name or Distance and Direction from the Named Location:			Region:		
	De Beers Group (Canada) Gahcho Kue Mine (Kennady Lake, NT)			<input checked="" type="checkbox"/> NT <input type="checkbox"/> Nunavut <input type="checkbox"/> Adjacent Jurisdiction or Ocean		
E	Latitude:			Longitude:		
	63 Degrees 26 Minutes 30 Seconds			109 Degrees 11 Minutes 59 Seconds		
F	Responsible Party or Vessel Name:		Responsible Party Address or Office Location:			
	De Beers Group		Suite 300 - 1601 Airport Road NE, Calgary Alberta Canada T2E 6X8			
G	Any Contractor Involved:		Contractor Address or Office Location:			
H	Product Spilled: <input type="checkbox"/> Potential Spill		Quantity in Litres, Kilograms or Cubic Metres:		U.N. Number:	
	Hydraulic oil		500 L			
I	Spill Source:		Spill Cause:		Area of Contamination in Square Metres:	
	Komatsu PC2000 Excavator		Line failure		8	
J	Factors Affecting Spill or Recovery:		Describe Any Assistance Required:		Hazards to Persons, Property or Environment:	
	none		none		none	
K	Additional Information, Comments, Actions Proposed or Taken to Contain, Recover or Dispose of Spilled Product and Contaminated Materials: On April 4, 2021 at approximately 05:30, one of the stick cylinders failed on TV-003 (PC2000 excavator), as the operator was booming the cylinder out it caught on the steel hard lines causing them to break. The initial investigation determined approximately 400-500 litres was released to the bench being worked on. The area of the spill was scraped up with another excavator, loaded on a haul truck and deposited in the Type 3 area of the West Mine Rock Pile. A follow up report will be submitted within the next 30 days detailing the root cause and corrective/preventative actions of this incident.					
L	Reported to Spill Line by:	Position:	Employer:	Location Calling From:	Telephone:	
	Allan Knight	Env. Coordinator	De Beers	Gahcho Kue Mine	(867) 679-5812	
M	Any Alternate Contact:	Position:	Employer:	Alternate Contact Location:	Alternate Telephone:	
	Mason Elwood	Env. Coordinator	De Beers	Off-Site	(867) 679-5814	

REPORT LINE USE ONLY

N	Received at Spill Line by:	Position:	Employer:	Location Called:	Report Line Number:
	Lead Agency: <input type="checkbox"/> EC <input type="checkbox"/> COG/TCMSS <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA			Significance: <input type="checkbox"/> Minor	
	<input type="checkbox"/> AANDC <input type="checkbox"/> NEB <input type="checkbox"/> Other: _____			<input type="checkbox"/> Major <input type="checkbox"/> Unknown	
	Agency:	Contact Name:	Contact Time:	Remarks:	
	Lead Agency:				
	First Support Agency:				
	Second Support Agency:				
	Third Support Agency:				

Figure 4. Original Spill Report (GNWT Spill #2022117)