WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL ABNORMAL

Machine Id

L.N. HEADWORKS BRIDGE DRIVE V.S.

Component Gearbox

Gearbox Fluid SAE 80W90 (GAL)							
RECOMMENDATION Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0750937	WC0578718	
	Sample Date		Client Info		09 May 2024	13 May 2021	
	Machine Age	yrs	Client Info		2	0	
	Oil Age	yrs	Client Info		2	1	
	Filter Age	yrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				ABNORMAL	NORMAL	
WEAR	PQ		ASTM D8184*		0	0	
All component wear rates are normal.	Iron	ppm	ASTM D5185(m)	>200	72	68	
	Chromium	ppm	ASTM D5185(m)	>15	<1	<1	
	Nickel	ppm	ASTM D5185(m)	>15	<1	<1	
	Titanium	ppm	ASTM D5185(m)		0	0	
	Silver	ppm	ASTM D5185(m)		0	<1	
	Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	
	Lead	ppm	ASTM D5185(m)	>100	81	81	
	Copper	ppm	ASTM D5185(m)	>200	<1	<1	
	Tin	ppm	ASTM D5185(m)	>25	0	0	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185(m)	>50	3	4	
	Potassium	ppm	ASTM D5185(m)		<1	<1	
	Water		WC Method	>0.2	NEG	NEG	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
	Appearance	scalar	Visual*	NORML	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)	>50	2	2	
Viscosity of sample indicates oil is within SAE 70W80 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185(m)	200	12	15	
	Barium	ppm	ASTM D5185(m)	0	0	0	
	Molybdenum	ppm	ASTM D5185(m)	0	0	0	
	Manganese	ppm	ASTM D5185(m)		2	2	
	Magnesium	ppm	ASTM D5185(m)	0	4	4	
	Calcium	ppm	ASTM D5185(m)	20	29	28	
	Phosphorus	ppm	ASTM D5185(m)	1000	1223	1199	
	Zinc	ppm	ASTM D5185(m)	20	8	8	
	Sulfur	ppm	ASTM D5185(m)	22000	21891	22372	
	Acid Number (AN)	mg KOH/g	ASTM D974*		2.11	2.18	

Visc @ 40°C

55.6

4 37.9

ASTM D7279(m) 135





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WC0750937 Lab Number : 02635067 Unique Number : 5776220 Test Package : IND 2

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received **Tested**

Diagnosed

: 13 May 2024 : 14 May 2024 : 15 May 2024 - Kevin Marson

Ontario Power Generation DYMOND WORK CENTRE, R.R. # 1, HWY #65 W NEW LISKEARD, ON CA P0J 1P0 Contact: Aaron Brammer

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To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.