# LIEBHERR

# **CONSTRUCTION EQUIPMENT**

## 113718-1216 - Transmission (Manual)

Sample No: LH0279291

Oil Type: PETRO CANADA DURON SAE 10W30



CONTAMINATION								
Water	%	NEG	NEG	NEG	NEG			
Silicon	ppm	<b>3</b>			<b>3</b>			
Sodium	ppm	<b>4</b>	<b>6</b>	<b>9</b>	<b>17</b>			
Potassium	ppm	<b>2</b>	O 1	O <1	<b>1</b>			

WEAR METALS							
Iron	ppm	<b>8</b>	<b>6</b>	<b>5</b>	<b>8</b>		
Copper	ppm	<b>12</b>	O 13	<b>14</b>	O 22		
Lead	ppm	<b>0</b> <1	O <1	O <1	O <1		
Tin	ppm	<b>0</b> <1	O <1	O <1	O 1		
Aluminum	ppm	<b>2</b>	02	O 2	02		
Chromium	ppm	<b>0</b>	0	0	O <1		
Molybdenum	ppm	<b>58</b>	O 55	<b>o</b> 50	O 41		
Nickel	ppm	<b>○</b> <1	O 0	O <1	O <1		
Titanium	ppm	0	<1	0	0		
Silver	ppm	<b>0</b>	O 0	O <1	O 0		
Manganese	ppm	<b>4</b>	5	4	<b>7</b>		
Vanadium	ppm	0	0	0	<1		

Vanadium	ppm	0	0	0	<1		
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ADDITIVES							
Calcium	ppm	① 1183	① 1254	① 1284	O 1616		
Magnesium	ppm	956	928	○ 866	O 730		
Zinc	ppm	<b>1196</b>	O 1224	O 1183	O 1232		
Phosphorus	ppm	<b>1098</b>	O 1079	<b>1077</b>	O 1051		
Barium	ppm	<b>0</b>	0	O <1	O <1		
Boron	ppm	<b>4</b>	<b>7</b>	<b>10</b>	<b>19</b>		



#### American Iron and Metal 2555 Sheffield Road

Ottawa, ON
CA K1B 3V6
Contact: Dan Dupelle

ddupelle@aim-rg.com T: (613)228-9380 F: (613)745-0692

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid.

Viscosity of sample indicates oil is within SAE 20 range, advise investigate. The condition of the fluid is acceptable for the time in service.

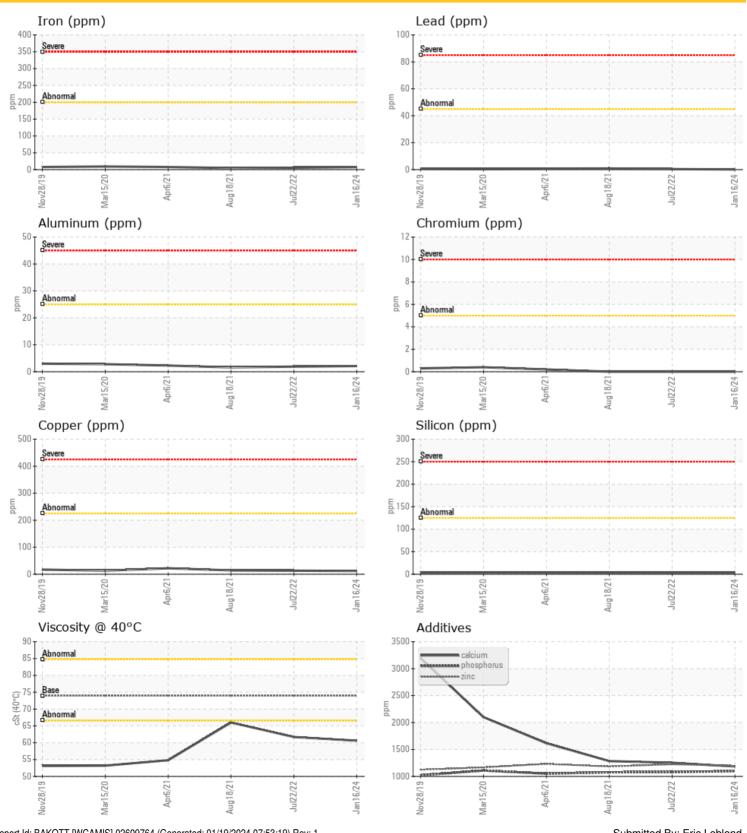
Depot:BAKOTTUnique No:5710850Signed:Kevin MarsonReport Date:18 Jan 2024

**CONSTRUCTION EQUIPMENT** 





### **GRAPHS**



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Submitted By: Eric Leblond