



### [GERDAU (NORTH YORK)] LH60C-3 - Left Final Drive

Sample No: LH0286865

Oil Type: PETRO CANADA TRAXON SYNTHETIC 75W90



#### Sample Information

Sample Number	LH0286865	LH0277433	LH0237724	LH0203089
Sample Date	03 May 2024	02 Feb 2024	27 Oct 2023	16 Feb 2023
Machine Hours	2984	2490	1995	654
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	SEVERE	SEVERE	NORMAL	NORMAL

#### GERDAU AMERISTEEL

1 GERDAU COURT  
 WHITBY, ON  
 CA L1N 5T1  
 Contact: Tyson Young  
 tyoung@gerdauameristeel.com  
 T: (905)668-8811  
 F: (905)668-6469



#### Oil Condition

Visc @ 40°C	cSt	104	96.7	153	173
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#### Contamination

Water	%	0.184	NEG	NEG	NEG
Silicon	ppm	656	276	25	38
Sodium	ppm	28	13	3	4
Potassium	ppm	83	39	2	6



#### Wear Metals

PQ		488	190	---	---
Iron	ppm	1083	431	60	72
Copper	ppm	61	22	12	11
Lead	ppm	10	5	1	1
Tin	ppm	5	2	<1	<1
Aluminum	ppm	213	91	8	13
Chromium	ppm	9	4	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	5	3	<1	<1
Titanium	ppm	15	6	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	11	5	<1	1
Vanadium	ppm	<1	0	0	0



#### Additives

Calcium	ppm	1027	430	43	72
Magnesium	ppm	123	53	4	7
Zinc	ppm	41	19	13	12
Phosphorus	ppm	873	858	2056	2415
Barium	ppm	5	2	2	2
Boron	ppm	28	26	48	10

#### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Iron ppm levels are severe. PQ levels are abnormal. Nickel and lead and chromium ppm levels are abnormal. Aluminum ppm levels are noted. Titanium ppm levels are marginal. Gear wear is indicated. Bearing and/or bushing wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring. There is a trace of moisture present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: LAKWHI  
 Unique No: 5774753  
 Signed: Kevin Marson  
 Report Date: 07 May 2024



### Graphs

