

Limit/Abn Current

History1

History2

Machine Id LIEBHERR LH60 142206

Diesel Engine

PETRO CANADA 10W40 (--- GAL)

Test

UOM

Method

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

WEAR			

All component wear rates are normal.

## CONTAMINATION

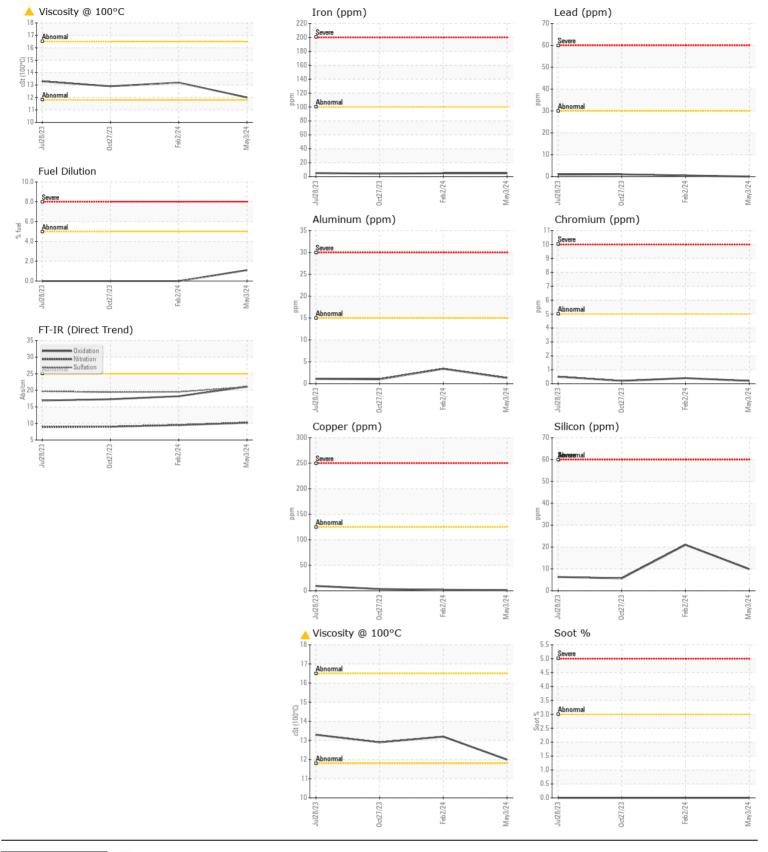
Light fuel dilution occurring. No other contaminants were detected in the oil.

Sample NumberClient InfoLH0286869LH02787Sample DateClient Info03 May 202402 Feb 20Machine AgehrsClient Info29842490	
Machine Age hrs Client Info 2984 2490	787 LH0217715
	024 27 Oct 2023
	1995
Oil Age hrs Client Info 0 0	0
Filter Age hrs Client Info 0 0	0
Oil Changed Client Info Changed Change	d Changed
Filter Changed Client Info Changed Change	d Changed
Sample Status ABNORMAL NORMA	AL NORMAL
Iron ppm ASTM D5185(m) >100 <b>5</b> 5	4
Chromium ppm ASTM D5185(m) >5 <1	<1
<b>Nickel</b> ppm ASTM D5185(m) >5 <b>0</b> <1	0
Titanium ppm ASTM D5185(m) <1 0	0
Silver ppm ASTM D5185(m) >3 0 0	0
Aluminum ppm ASTM D5185(m) >15 1 3	1
Lead ppm ASTM D5185(m) >30 0 <1	1
Copper ppm ASTM D5185(m) >125 1 2	3
Tin ppm ASTM D5185(m) >5 0 <1	0
Vanadium ppm ASTM D5185(m) 0 0	0
Silicon ppm ASTM D5185(m) >60 10 21	6
Potassium ppm ASTM D5185(m) >20 2 6	<1
Fuel % ASTM D7593* >5 1.1 <1.0	<1.0
Water WC Method >0.2 NEG NEG	NEG
Glycol WC Method NEG NEG	NEG
Soot % % ASTM D7844* >3 0 0	0
Nitration Abs/cm ASTM D7624* >20 10.2 9.5	9.0
Sulfation Abs/.1mm ASTM D7415* >30 21.0 19.5	19.4
Emulsified Water scalar Visual* >0.2 <b>NEG</b> NEG	NEG
Sodium ppm ASTM D5185(m) >20 3 1	2
Boron ppm ASTM D5185(m) 21 <1	<1
Barium ppm ASTM D5185(m) <1 <1	<1
Molybdenum ppm ASTM D5185(m) 58 59	60
	0
Manganese ppm ASTM D5185(m) 0 0	977
Manganese ppm ASTM D5185(m) 0 0   Magnesium ppm ASTM D5185(m) 1089 979	1080
Magnesium ppm ASTM D5185(m) 1089 979	994
Magnesium ppm ASTM D5185(m) 1089 979   Calcium ppm ASTM D5185(m) 936 1093	
Magnesium ppm ASTM D5185(m) 1089 979   Calcium ppm ASTM D5185(m) 936 1093   Phosphorus ppm ASTM D5185(m) 1033 1021	1202
Magnesium ppm ASTM D5185(m) 1089 979   Calcium ppm ASTM D5185(m) 936 1093   Phosphorus ppm ASTM D5185(m) 1033 1021   Zinc ppm ASTM D5185(m) 1226 1205	1202 2447

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Contact/Location: Tyson Young - LAKWHI



**GERDAU AMERISTEEL** Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Ð۴ Sample No. Received 1 GERDAU COURT : LH0286869 :06 May 2024 Lab Number : 02633415 WHITBY, ON Tested :08 May 2024 ISO 17025:2017 Accredited : 08 May 2024 - Kevin Marson Unique Number : 5774568 Diagnosed CA L1N 5T1 Laboratory Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel) Contact: Tyson Young To discuss this sample report, contact Customer Service at 1-800-268-2131. tyoung@gerdauameristeel.com Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (905)668-8811 F: (905)668-6469 Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: Tyson Young - LAKWHI Page 2 of 2