CONSTRUCTION EQUIPMENT

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

Sample No: LH0286865

Oil Type:

PETRO CANADA TRAXON SYNTHETIC 75W90

O Sam	ple Infor	mation			
Sample Number		LH0286865	LH0277433	LH0237724	LH0203089
					16 Feb 2023
Sample Date		03 May 2024	02 Feb 2024	27 Oct 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
🖤 🛛 Oil C	ondition				
Visc @ 40°C	cSt	0 104	96.7	153	0 173
	001	0.0	0 000		00
Conf	aminatio	n			
Water	%	0.184	NEG	NEG	NEG
Silicon	ppm	656	276	25	38
Sodium	ppm	28	0 13	3	0 4
Potassium	ppm	0 83	○ 39	02	6
~					
We	r Metals				
PQ		488	0 190		
		•	•		
Iron	ppm	0 1083	0 431	○ 60	0 72
Copper	ppm	61	0 22	0 12	0 11
Lead	ppm	<u> </u>	05	01	01
Tin	ppm	5	02	0 <1	○ <1
Aluminum	ppm	O 213	91	08	0 13
Chromium	ppm	<u> </u>	0 4	0 <1	○ <1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<mark>)</mark> 5	3	○ <1	<1
Titanium	ppm	<mark>()</mark> 15	6	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0 11	5	○ <1	01
Vanadium	ppm	<1	0	0	0
Addi	itives				
Calcium	ppm	1027	○ 430	43	0 72
Magnesium		123	53	43	072
	ppm	Q 41	0 19	0 13	0 12
0		941	0 19	013	012
Zinc	ppm	-	0 959	2056	0 2/15
0	ppm ppm	○ 873○ 5	8582	2056	○ 2415○ 2



GERDAU AMERISTEEL

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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 topup/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 (AI) 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.

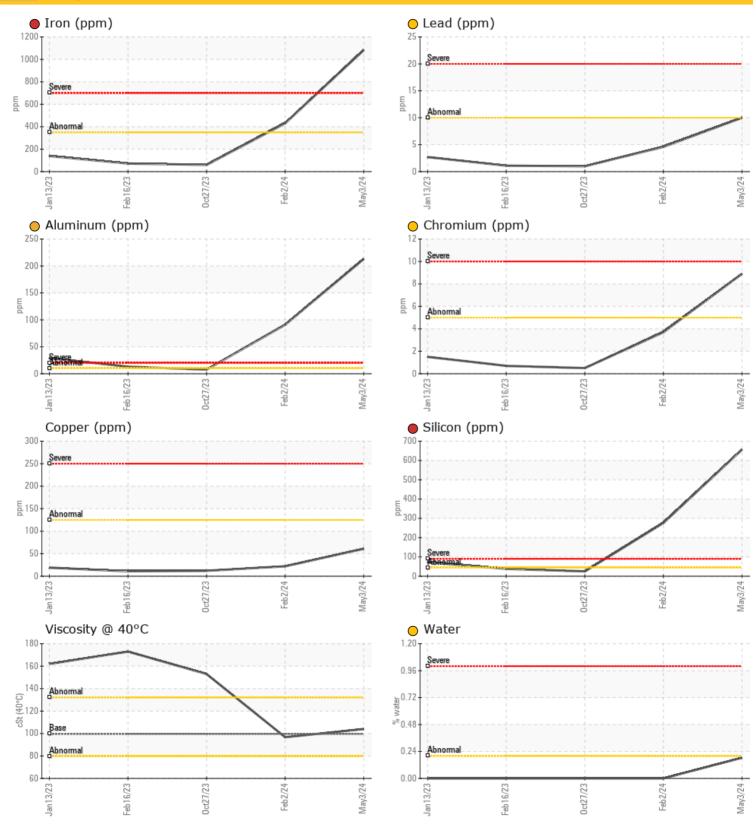
Depot:LAKWHIUnique No:5774753Signed:Kevin MarsonReport Date:07 May 2024Contact/Location: Tyson Young - LAKWHI



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Graphs





Report Id: LAKWHI [WCAMIS] 02633600 (Generated: 05/09/2024 19:53:29) Rev: 1

Contact/Location: Tyson Young - LAKWHI