WEAR
CONTAMINATION
FLUID CONDITION

NORMAL NORMAL NORMAL



Area (344091)

LIEBHERR LH40M 120553-1215

Component Rear Left Wheel Hub

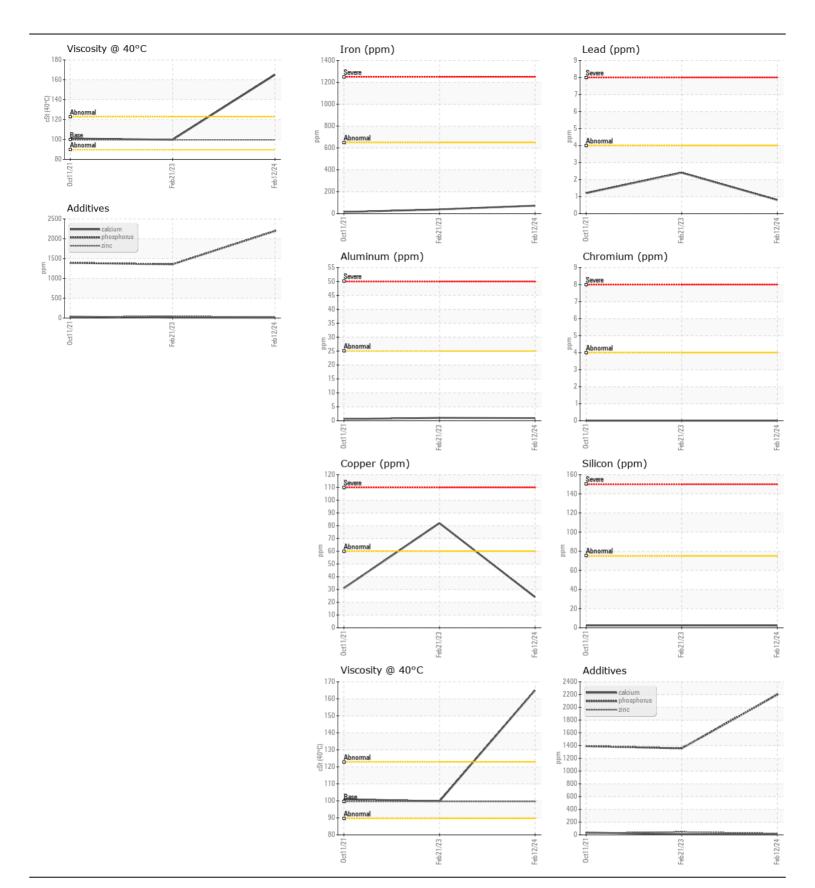
PETRO CANADA TRAXON 75W90 SYNTHETIC (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA TRAXON 75W90 SYNTHETIC, however, a fluid match indicates that this fluid is SAE 90 Gear Oil. Please confirm the oil type and grade on your next sample.	Sample Number		Client Info		LH0193881	LH0193867	LH0193853
	Sample Date		Client Info		12 Feb 2024	21 Feb 2023	11 Oct 2021
	Machine Age	hrs	Client Info		4086	2835	1021
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		None	None	None
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185(m)	>650	72	38	14
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>4	0	0	0
	Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
	Titanium	ppm	ASTM D5185(m)	>4	0	0	0
	Silver	ppm	ASTM D5185(m)		0	0	<1
	Aluminum	ppm	ASTM D5185(m)	>25	<1	1	<1
	Lead	ppm	ASTM D5185(m)	>4	<1	2	1
	Copper	ppm	ASTM D5185(m)	>60	24	<u>▲</u> 82	31
	Tin	ppm	ASTM D5185(m)	>4	0	<1	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	White Metal	scalar	Visual*	NONE	NONE	VLITE	LIGHT
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	VLITE
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>75	2	2	2
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
	Water		WC Method	>0.2	NEG	NEG	NEG
	Silt	scalar	Visual*	NONE	NONE	NONE	NONE
	Debris	scalar	Visual*	NONE	VLITE	NONE	NONE
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
	Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
	Odor	scalar	Visual*	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		3	2	2
Viscosity of sample indicates oil is within SAE 90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	328	36	311	252
	Barium	ppm	ASTM D5185(m)	1	0	0	<1
	Molybdenum	ppm	ASTM D5185(m)		0	<1	<1
	Manganese	ppm	ASTM D5185(m)		1	2	<1
	Magnesium	ppm	ASTM D5185(m)	1	<1	1	1
	Calcium	ppm	ASTM D5185(m)		8	11	37
	Phosphorus	ppm	ASTM D5185(m)		2197	1355	1391
	Zinc	ppm	ASTM D5185(m)		22	46	27
	Sulfur	ppm	ASTM D5185(m)	17909	24825	21946	20987

Visc @ 40°C

ASTM D7279(m) 99.6

165

99.7





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02616384 Unique Number : 5733494

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : LH0193881

Tested Diagnosed : 16 Feb 2024

: 20 Feb 2024

: 20 Feb 2024 - Kevin Marson

Test Package : MOBCE (Additional Tests: Visual) 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.

Goodies Trading Ltd.

8150 Aitken Road Chilliwack, BC CA V2R 4H5

Contact: Service Manager

T: F: