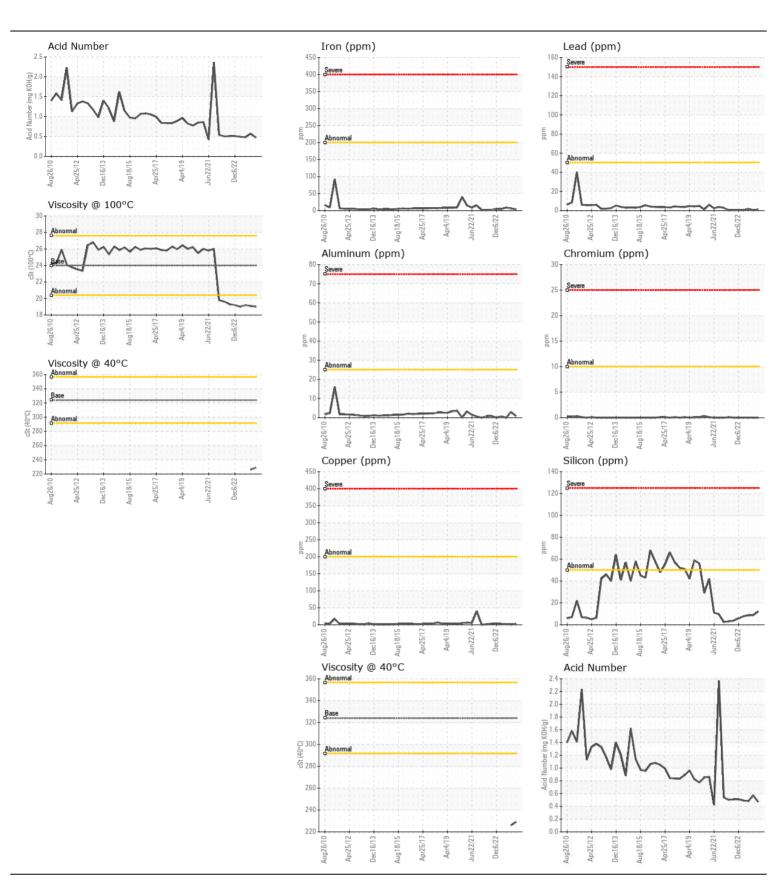
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

OIL ANALYSIS REPORT

4 - 1 BATCH OFF GEARBOX

Component **Gearbox**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number	OOW	Client Info	LITTIOTALIT	TR06029545	TR05939823	TR0585447
	Sample Date		Client Info		21 Nov 2023	30 Aug 2023	18 May 202
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	ABNORMA
WEAR	Iron	ppm	ASTM D5185m		4	6	9
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0	0	0
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	<1	3	0
	Lead	ppm	ASTM D5185m		1	<1	1
	Copper	ppm	ASTM D5185m	>200	2	1	2
	Tin	ppm	ASTM D5185m	>10	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	12	9	9
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		1	1	<1
	Water	PP	WC Method	>0.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	MODER	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	LIGHT	▲ MODE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m		.4	0	0
LOID CONDITION	Boron	ppm	ASTM D5185m		<1 84	93	79
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m		0	2	<1
	Calcium	ppm	ASTM D5185m		0	0	3
	Phosphorus	ppm	ASTM D5185m		325	327	284
	Zinc	ppm	ASTM D5185m		0	0	1
	Sulfur	ppm	ASTM D5185m		7946	10415	7326
	Acid Number (AN)				0.47	0.57	0.48
		cSt	ASTM D0045	224	229	226	
	Visc @ 40°C						
	Visc @ 40°C Visc @ 100°C	cSt	ASTM D445		19.0	19.1	19.2





Laboratory Sample No.

Lab Number

Unique Number: 10779336

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06029545 : 06029545

Received **Tested**

Diagnosed

: 08 Dec 2023 : 11 Dec 2023

: 11 Dec 2023 - Wes Davis

CARLSTAR GROUP - FORMERLY CARLISLE TIRE 520 JD YARNELL IND. PKWY

CLINTON, TN US 37716

Contact: JOHN GAINES

Test Package : MOB 2 (Additional Tests: KV100, VI) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (865)463-3696

T: