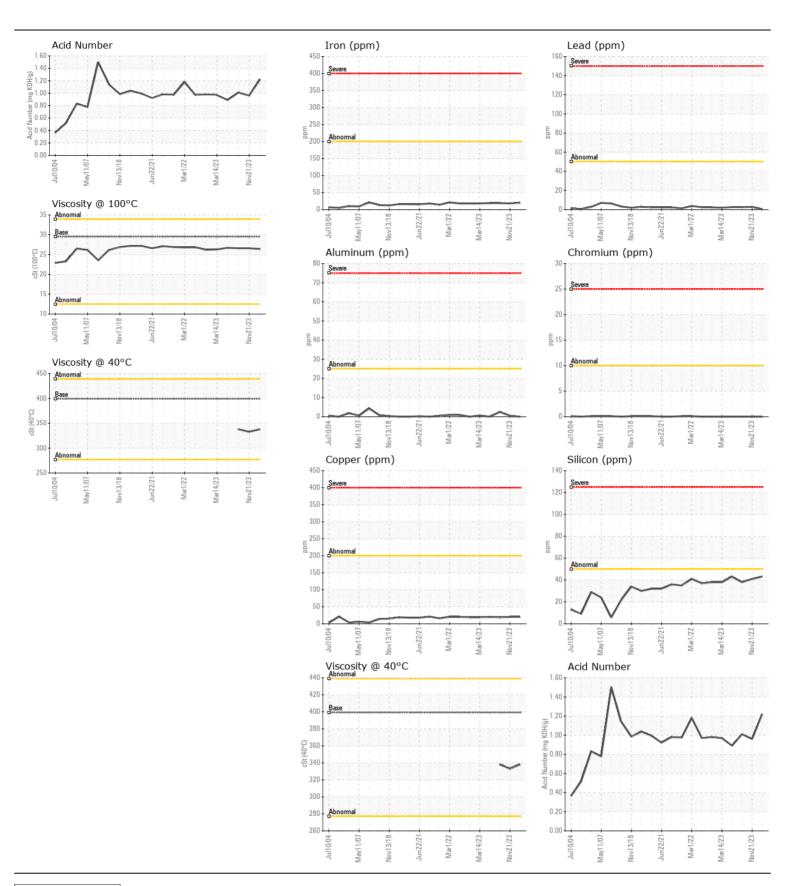
**OIL ANALYSIS REPORT** 

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

## 8 - 2 TWIN FABRIC COLANDAR

Component Gearbox

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR06122586	TR06029543	TR0593982
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		13 Mar 2024	21 Nov 2023	30 Aug 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	NORMAL
WEAR	Iron	nnm	ASTM D5185m	>200	20	18	19
VLAN	Chromium	ppm	ASTM D5185m		0	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m	>10	0	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	<b>&gt;25</b>	0	<1	2
	Lead		ASTM D5185m		<1	3	2
	Copper	ppm	ASTM D5185m		20	20	19
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m	710	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		43	41	38
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	2	1
	Water		WC Method	>0.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE NORML	NONE	NONE
	Appearance	scalar	*Visual	NORML	-	NORML NORML	NORM NORM
	Odor Emulsified Water	scalar scalar	*Visual *Visual	NORML >0.2	NORML NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	5	4
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0	0	0
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m		0	0	3
	Calcium	ppm	ASTM D5185m		3	0	0
	Phosphorus	ppm	ASTM D5185m		543	644	620
	Zinc	ppm	ASTM D5185m		8	0	10
	Sulfur	ppm	ASTM D5185m		22338	21034	25056
		mg KOH/g	ASTM D8045		1.22	0.96	1.01
	Acid Number (AN)			000			000
	Visc @ 40°C Visc @ 100°C	cSt cSt	ASTM D445 ASTM D445		338 26.4	333 26.6	338 26.6





Laboratory Sample No.

Lab Number : 06122586

: TR06122586

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

**Tested** Unique Number : 10936737 Diagnosed Test Package : MOB 2 (Additional Tests: KV100, VI)

: 19 Mar 2024 : 20 Mar 2024

: 20 Mar 2024 - Wes Davis

**CARLSTAR GROUP - FORMERLY CARLISLE TIRE** 520 JD YARNELL IND. PKWY CLINTON, TN

US 37716

Contact: JOHN GAINES

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)

T: F: (865)463-3696