**OIL ANALYSIS REPORT** 

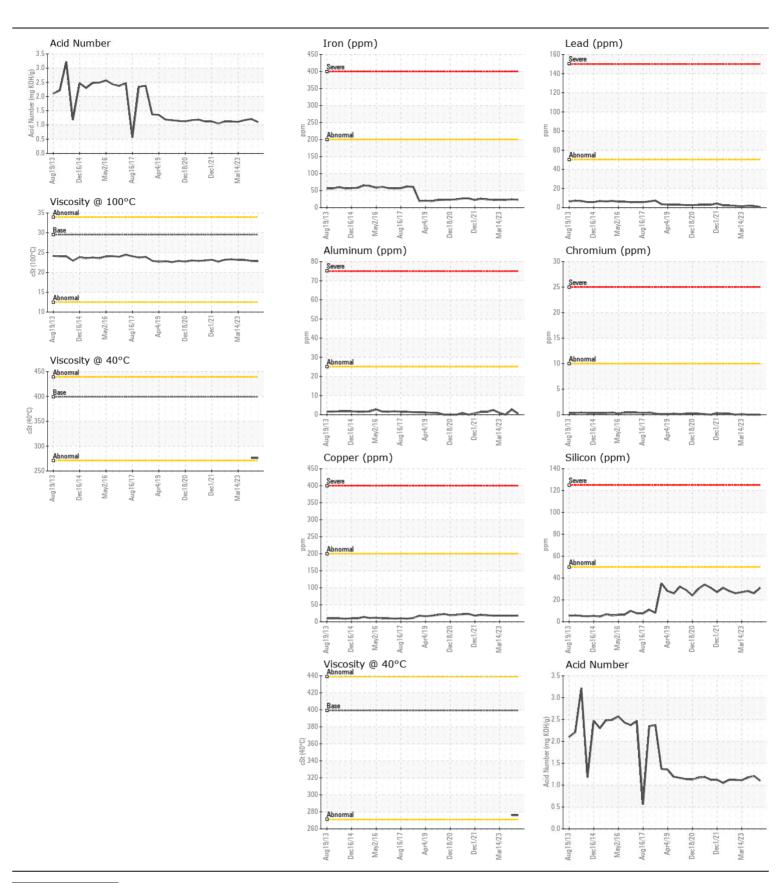
**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

Machine Id

## 12 - 1 EXTRUDER TWIN MILLS

Component Gearbox

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR06029542	TR05939824	TR0585447
	Sample Date		Client Info		21 Nov 2023	30 Aug 2023	18 May 202
	Machine Age	yrs	Client Info		0	0	0
	Oil Age	yrs	Client Info		0	0	0
	Filter Age	yrs	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	ppm	ASTM D5185m	>200	23	24	22
	Chromium	ppm	ASTM D5185m	>10	0	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		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	>50	<1	2	2
	Copper	ppm	ASTM D5185m	>200	18	18	18
	Tin	ppm	ASTM D5185m	>10	0	<1	<1
	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	31	26	28
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	1	1	<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	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	0	0
The AN level is acceptable for this fluid. The condition of the oil is	Boron	ppm	ASTM D5185m		13	14	11
suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	<1
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		0	1	2
	Calcium	ppm	ASTM D5185m		0	2	11
	Phosphorus	ppm	ASTM D5185m		909	854	769
	Zinc	ppm	ASTM D5185m		0	0	6
	Sulfur	ppm	ASTM D5185m		20925	25056	17904
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.10	1.21	1.17
	VE 0 1000	- 0:	AOTA DAA				
	Visc @ 40°C Visc @ 100°C	cSt cSt	ASTM D445 ASTM D445		276 22.8	276 22.9	23.1





Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06029542

: 06029542 Unique Number : 10779333

: 08 Dec 2023 Received : 11 Dec 2023 **Tested** 

: 11 Dec 2023 - Wes Davis Diagnosed

**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 ) 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)

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