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

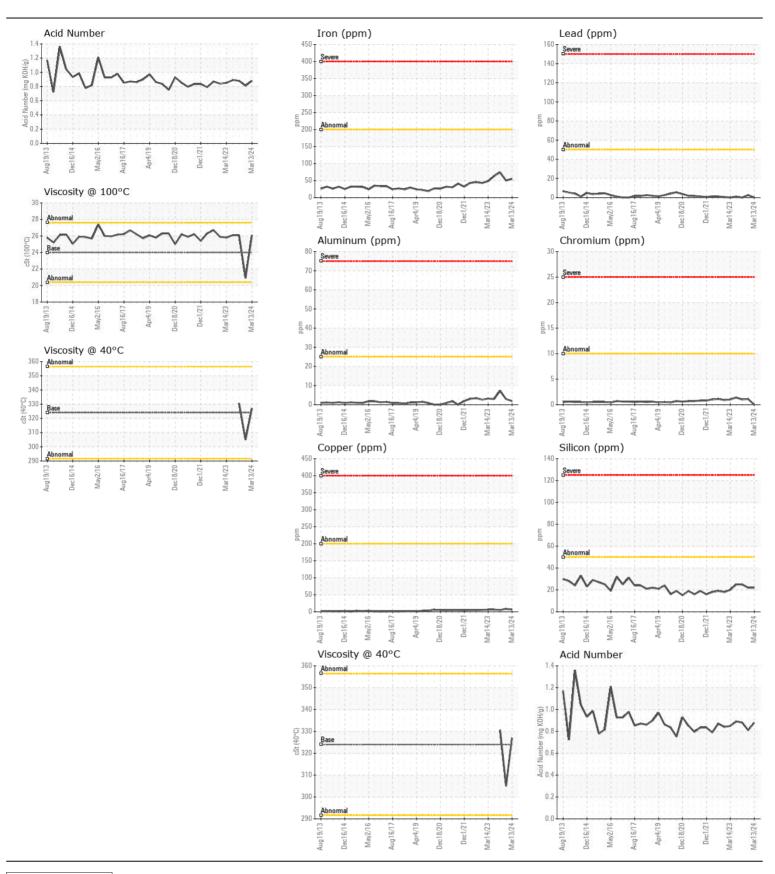
OIL ANALYSIS REPORT

Machine Id

11 - 1 EXTRUDER

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	LIIIIII/AUII	TR06122585	TR06029537	TR0593982
	Sample Date		Client Info		13 Mar 2024	21 Nov 2023	30 Aug 2023
	Machine Age	yrs	Client Info		0	0	0 Aug 2020
	Oil Age	yrs	Client Info		0	0	0
	Filter Age	yrs	Client Info		0	0	0
	Oil Changed	yıs	Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAD			AOTM DEADE	000		F0	
WEAR	Iron	ppm	ASTM D5185m		55	50	74
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	1	1
	Nickel	ppm	ASTM D5185m	>10	0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	3	7
	Lead	ppm	ASTM D5185m		0	3	0
	Copper	ppm	ASTM D5185m		6	8	5
	Tin	ppm	ASTM D5185m	>10	0	0	0
	Vanadium	ppm	ASTM D5185m	NONE	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	22	22	25
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	2	3
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	<1	0
	Boron	ppm	ASTM D5185m		3	3	2
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	1	<1
	Magnesium	ppm	ASTM D5185m		0	0	2
	Calcium	ppm	ASTM D5185m		13	71	12
	Phosphorus	ppm	ASTM D5185m		653	734	732
	Zinc	ppm	ASTM D5185m		6	27	0
	Sulfur	ppm	ASTM D5185m		19156	17326	22334
	Acid Number (AN)	mg KOH/g			0.88	0.81	0.88
	Visc @ 40°C	cSt	ASTM D445	324	327	305	330.6
	Visc @ 100°C	cSt	ASTM D445	24.0	26.1	20.9	26.1





Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06122585

: 06122585

Received **Tested** Unique Number: 10936736 Diagnosed Test Package : MOB 2 (Additional Tests: KV100, VI)

: 20 Mar 2024 : 20 Mar 2024 - Wes Davis

: 19 Mar 2024

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)

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