OIL ANALYSIS REPORT

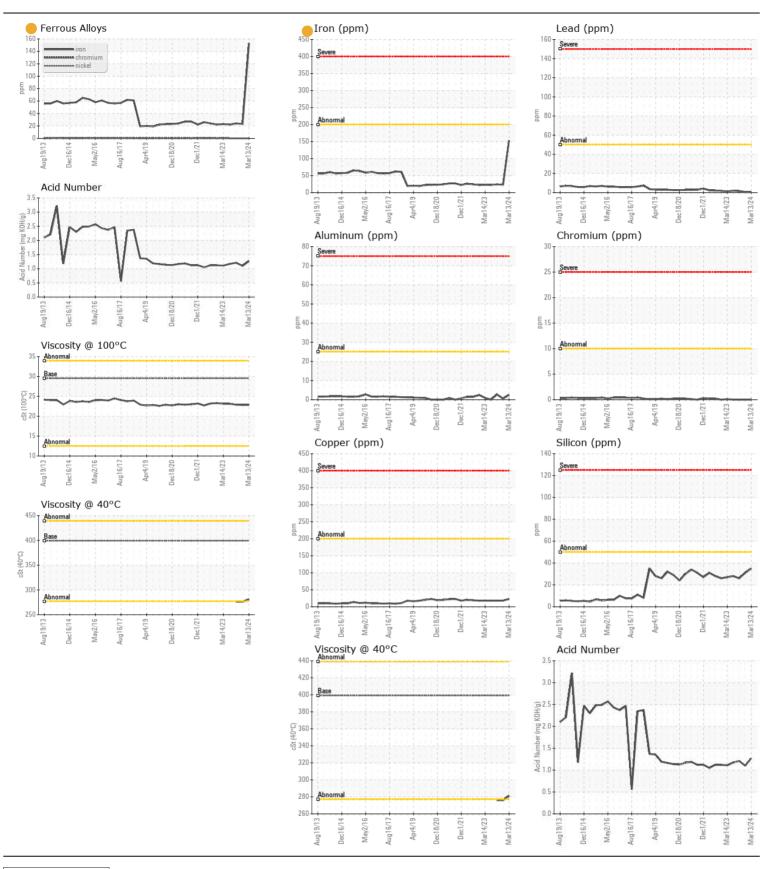
WEAR CONTAMINATION **FLUID CONDITION** **ATTENTION NORMAL NORMAL**

Machine Id

12 - 1 EXTRUDER TWIN MILLS

Component Gearbox

RECOMMENDATION No corrective action is recommended at this time. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR06122593	TR06029542	TR0593982
	Sample Date		Client Info		13 Mar 2024	21 Nov 2023	30 Aug 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				ATTENTION	NORMAL	NORMAL
WEAR	Iron	nnm	ASTM D5185m	> 200	153	23	24
	Chromium	ppm	ASTM D5185m		0	0	0
An increase in the iron level is noted. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	>10	0	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	<1	3
	Lead		ASTM D5185m		<1	<1	2
	Copper	ppm	ASTM D5185m		23	18	18
	Tin	ppm	ASTM D5185m		0	0	<1
	Vanadium	ppm	ASTM D5185m	>10	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	35	31	26
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	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 Odor	scalar	*Visual	NORML NORML	NORML NORML	NORML NORML	NORMI
	Emulsified Water	scalar 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 suitable for further service.	Boron	ppm	ASTM D5185m		14	13	14
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		<1	0	1
	Calcium	ppm	ASTM D5185m		10	0	2
	Phosphorus	ppm	ASTM D5185m		743	909	854
	Zinc	ppm	ASTM D5185m		0	0	0
	Sulfur	ppm	ASTM D5185m		22680	20925	25056
		mg KOH/g	ASTM D8045		1.27	1.10	1.21
	Acid Number (AN)			200			
	Visc @ 40°C Visc @ 100°C	cSt cSt	ASTM D445 ASTM D445		281 22.8	276 22.8	276 22.9





Laboratory Sample No. Unique Number : 10936744

Lab Number

: TR06122593 : 06122593

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 19 Mar 2024 Received

: 20 Mar 2024 **Tested** Diagnosed

: 21 Mar 2024 - Don Baldridge

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)

F: (865)463-3696

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