OIL ANALYSIS REPORT

WEAR CONTAMINATION **FLUID CONDITION**

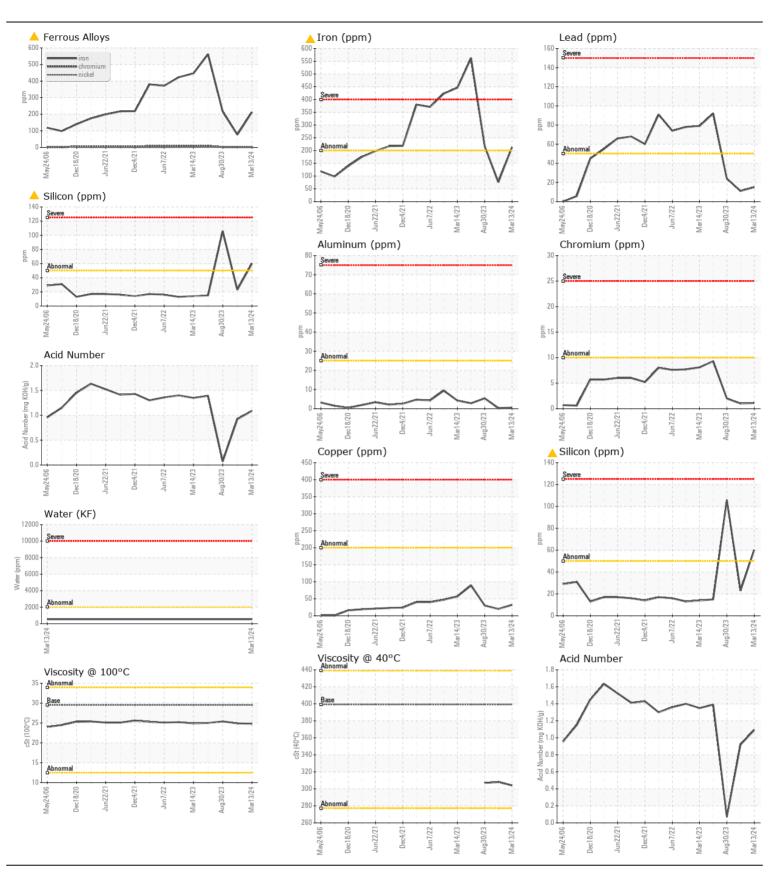
ABNORMAL ABNORMAL NORMAL

Machine Id

15 - 1 EXTRUDER SCRAP MILL

Component Gearbox

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		TR06122592	TR06029535	TR0593981
	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				ABNORMAL	NORMAL	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>200	<u> </u>	76	<u>^</u> 217
T	Chromium	ppm	ASTM D5185m	>10	1	1	2
The iron level is abnormal. All other component wear rates are normal.	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	>25	<1	<1	5
	Lead	ppm	ASTM D5185m	>50	15	11	24
	Copper	ppm	ASTM D5185m	>200	32	20	30
	Tin	ppm	ASTM D5185m	>10	0	0	2
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	MODE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	6 0	23	<u> </u>
	Potassium	ppm	ASTM D5185m	>20	0	2	2
Elemental level of silicon (Si) above normal.	Water	%	ASTM D6304	>0.2	0.054		
	ppm Water	ppm	ASTM D6304	>2000	540		
	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	0.2%	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		4	0	0
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		2	1	2
	Magnesium	ppm	ASTM D5185m		0	0	1
	Calcium	ppm	ASTM D5185m		14	0	11
	Phosphorus	ppm	ASTM D5185m		694	841	749
	Zinc	ppm	ASTM D5185m		0	0	0
	Sulfur	ppm	ASTM D5185m		21423	20006	23681
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.09	0.92	0.07
	Visc @ 40°C	cSt	ASTM D445		304	308	307
	Visc @ 100°C	cSt	ASTM D445	20 5	24.8	24.9	25.4





Laboratory Sample No. Lab Number Unique Number : 10936743

: 06122592

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06122592

Received : 19 Mar 2024 **Tested**

: 20 Mar 2024 : 21 Mar 2024 - Don Baldridge Diagnosed

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

CLINTON, TN US 37716

Contact: JOHN GAINES

Test Package : MOB 2 (Additional Tests: KF, 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

T: