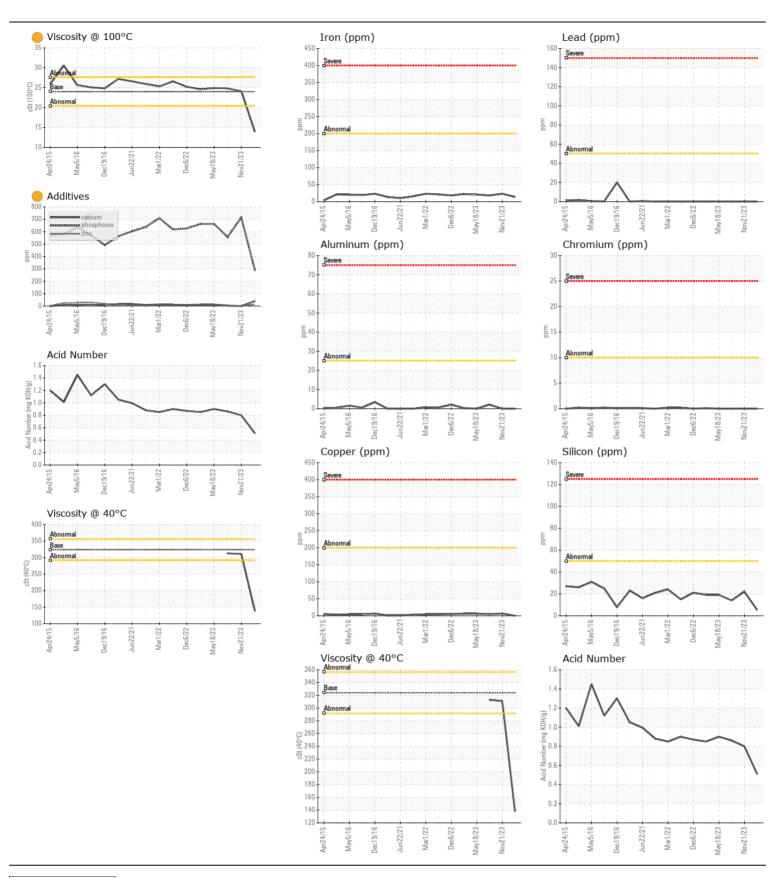
OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION **ABNORMAL NORMAL ATTENTION**

Machine Id 2 - 2 MIXER

Component Gearbox

Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR06122584	TR06029541	TR0593981
	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				ABNORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>200	13	23	18
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0	0	0
	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	0	0	2
	Lead	ppm	ASTM D5185m	>50	0	0	0
	Copper	ppm	ASTM D5185m	>200	<1	7	5
	Tin	ppm	ASTM D5185m	>10	0	0	0
	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	5	22	14
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	1	1
	Water		WC Method	>0.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	LIGHT	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	<1
The oil viscosity is lower than normal. This plus the additive levels	Boron	ppm	ASTM D5185m		45	0	0
indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.	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	1
	Calcium	ppm	ASTM D5185m		3 9	0	4
	Phosphorus	ppm	ASTM D5185m		290	715	557
	Zinc	ppm	ASTM D5185m		13	0	0
	Sulfur	ppm	ASTM D5185m		8845	18012	17681
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.51	0.80	0.86
	Visc @ 40°C	cSt	ASTM D445	324	138	310.7	313
	Visc @ 100°C	cSt	ASTM D445		13.9	24.12	24.8





Laboratory Sample No. Unique Number: 10936735

Lab Number : 06122584

: TR06122584

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

: 19 Mar 2024 : 20 Mar 2024

: 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)

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