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

OIL ANALYSIS REPORT

Machine Id

2 - 2 MIXER

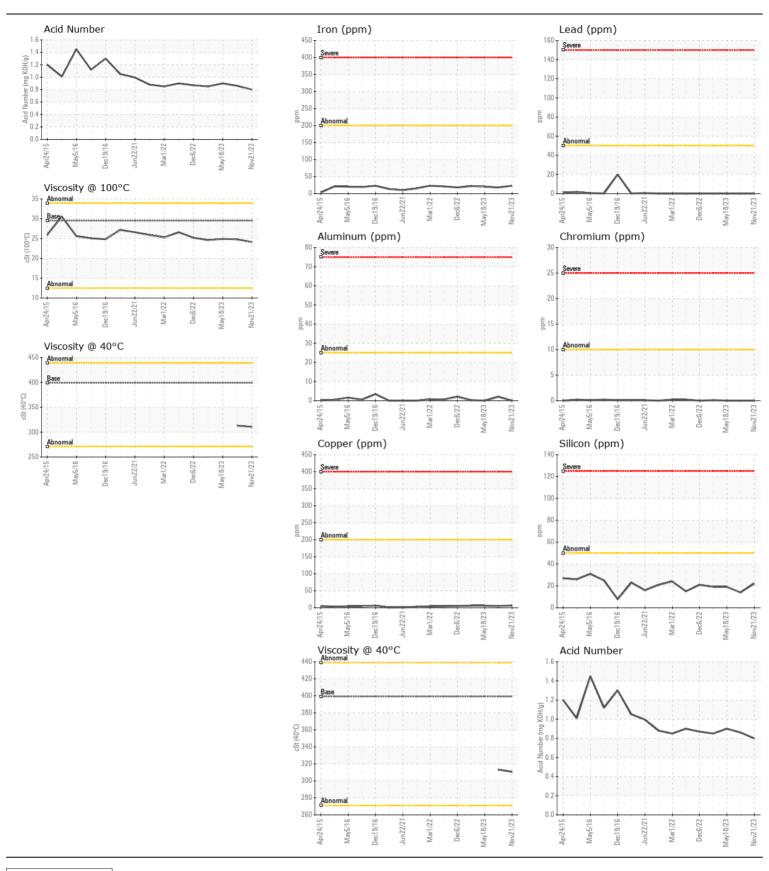
Component Gearbox

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. Please note that this is a corrected copy for laboratory data updates for 100 C viscosity retest.	Sample Number		Client Info		TR06029541	TR05939816	TR0585446
	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	NORMAI
WEAR	Iron	ppm	ASTM D5185m	>200	23	18	20
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0	0	0
	Nickel	ppm	ASTM D5185m	>10	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	0	2	0
	Lead	ppm	ASTM D5185m	>50	0	0	0
	Copper	ppm	ASTM D5185m	>200	7	5	6
	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	22	14	19
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	LIGHT	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	<1	0
	Boron	ppm	ASTM D5185m		0	0	0
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	<1
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		0	1	1
	Calcium	ppm	ASTM D5185m		0	4	12
	Phosphorus	ppm	ASTM D5185m		715	557	663
	Zinc	ppm	ASTM D5185m		0	0	6
	Sulfur	ppm	ASTM D5185m		18012	17681	15704
	Acid Number (AN)				0.80	0.86	0.90
	Visc @ 40°C Visc @ 100°C	cSt	ASTM D445		310.7	313	
		cSt	ASTM D445	00 5	24.12	24.8	24.9

Viscosity Index (VI) Scale ASTM D2270

101

98





Laboratory Sample No. Lab Number Unique Number : 10779332

: TR06029541 : 06029541

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

: 08 Dec 2023 : 15 Dec 2023 **Tested** Diagnosed

: 19 Dec 2023 - Jonathan Hester

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)

T: F: (865)463-3696