

OIL ANALYSIS REPORT

Machine Id 9 - FABRIC CALENDAR MAIN DRIVE Component Gearbox Fluid

TRC 890 VARI-PURPOSE 85W140 (60 GAL)

INC 090 VANIPUNPUSE 05W140 (00 GAL)					.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06029530	TR05939828	TR05854480
	Sample Date		Client Info		21 Nov 2023	30 Aug 2023	18 May 2023
	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	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>200	53	80	83
	Chromium	ppm	ASTM D5185m		0	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	<1	3	0
	Lead	ppm	ASTM D5185m	>50	57	74	71
	Copper	ppm	ASTM D5185m	>200	<1	0	<1
	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	25	27
There is no indication of any contamination in the component.	Potassium	ppm	ASTM D5185m	>20	1	1	<1
	Water	%	ASTM D6304	>0.2	0.017		
	ppm Water	ppm	ASTM D6304	>2000	170		
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	1	<1
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		6	0	0
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		4	6	7
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		0	2	2
	Calcium	ppm	ASTM D5185m		0	0	4
	Phosphorus	ppm	ASTM D5185m		594	611	564
	Zinc	ppm	ASTM D5185m		0	0	3
	Sulfur	ppm	ASTM D5185m		18836	23850	17475
		1/01/1/				0.05	0.00

Acid Number (AN) mg KOH/g ASTM D8045

Viscosity Index (VI) Scale ASTM D2270

Visc @ 100°C cSt

Visc @ 40°C cSt ASTM D445 399

ASTM D445 29.5

0.85

299

24.9

106 ----

0.81

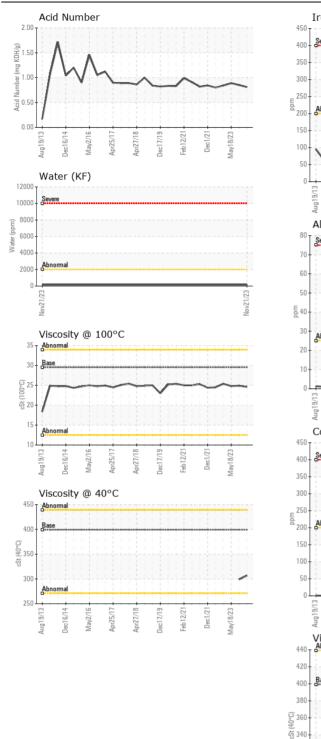
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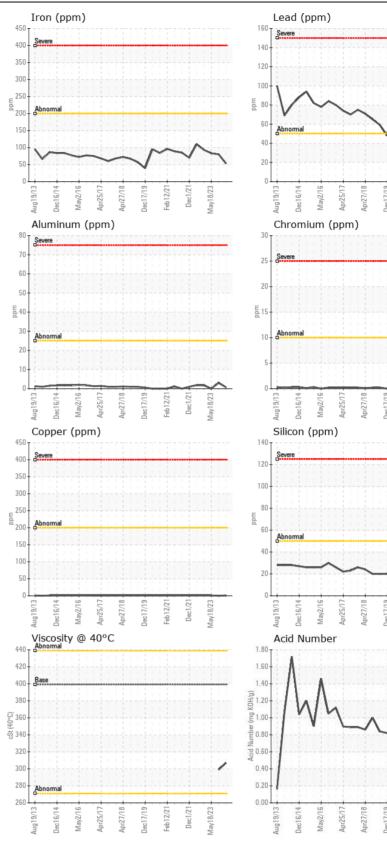
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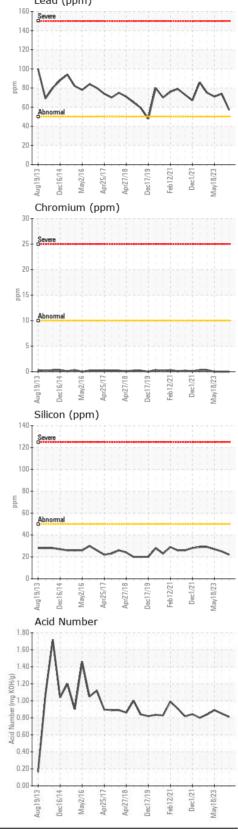
102

0.89

24.8







CARLSTAR GROUP - FORMERLY CARLISLE TIRE Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06029530 :08 Dec 2023 520 JD YARNELL IND. PKWY Sample No. Received : 06029530 : 12 Dec 2023 CLINTON, TN Lab Number Tested Unique Number : 10779321 : 12 Dec 2023 - Don Baldridge US 37716 Diagnosed Test Package : MOB 2 (Additional Tests: KF, KV100, VI) Contact: JOHN GAINES Certificate L2367 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. T: F: (865)463-3696 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Contact/Location: JOHN GAINES - CARCLIUS