

OIL ANALYSIS REPORT

TRC 890 VARI-PURPOSE 85W140 (13 GAL)	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	00101	Client Info	LITTICAOT	TR06122583	TR06029536	TR0593981
No corrective action is recommended at this time. Resample at the next service interval to monitor.	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	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>200	31	34	31
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	3	4	6
	Lead	ppm	ASTM D5185m	>50	35	41	37
	Copper	ppm	ASTM D5185m	>200	0	<1	0
	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	19	20	16
Moderate concentration of visible dirt/debris present in the oil.	Potassium	ppm	ASTM D5185m	>20	0	1	1
	Water		WC Method	>0.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	MODER	NONE
	Debris	scalar	*Visual	NONE	A MODER	NONE	LIGHT
	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
	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		<1	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		<1	2	1
	Magnesium	ppm	ASTM D5185m		0	0	1
	Calcium	ppm	ASTM D5185m		4	0	0
	Phosphorus	ppm	ASTM D5185m		499	586	500
	Zinc	ppm	ASTM D5185m		6	0	2
	Sulfur	ppm	ASTM D5185m		19179	18100	17982
	Acid Number (AN)	ma KOH/a	ASTM D8045		0.92	0.81	0.82
					0.01	0.01	0.02

Visc @ 40°C cSt ASTM D445 399

Viscosity Index (VI) Scale ASTM D2270

ASTM D445 29.5

Visc @ 100°C cSt

326

25.4

100

329

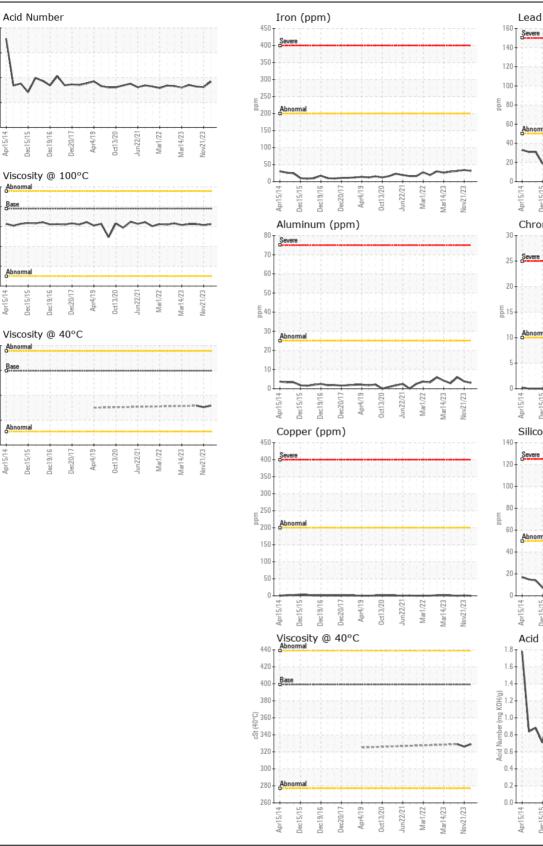
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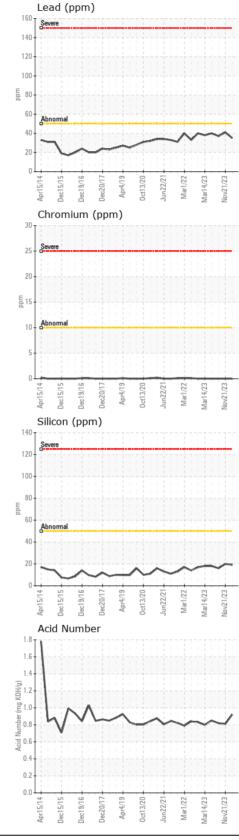
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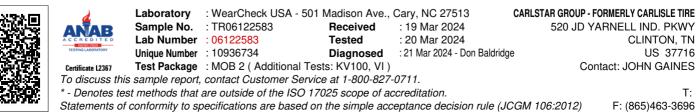
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25.6

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:

2.0

Acid Number (mg KOH/g)

0

35

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15

450

400 CSt (40°C) 320

300

250

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Contact/Location: JOHN GAINES - CARCLIUS