

OIL ANALYSIS REPORT

Sample Rating Trend



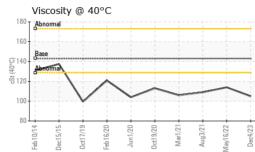
LIEBHERR LIEBHERR A934CHD 060316-1419 Component Front Left Wheel Hub Fluid

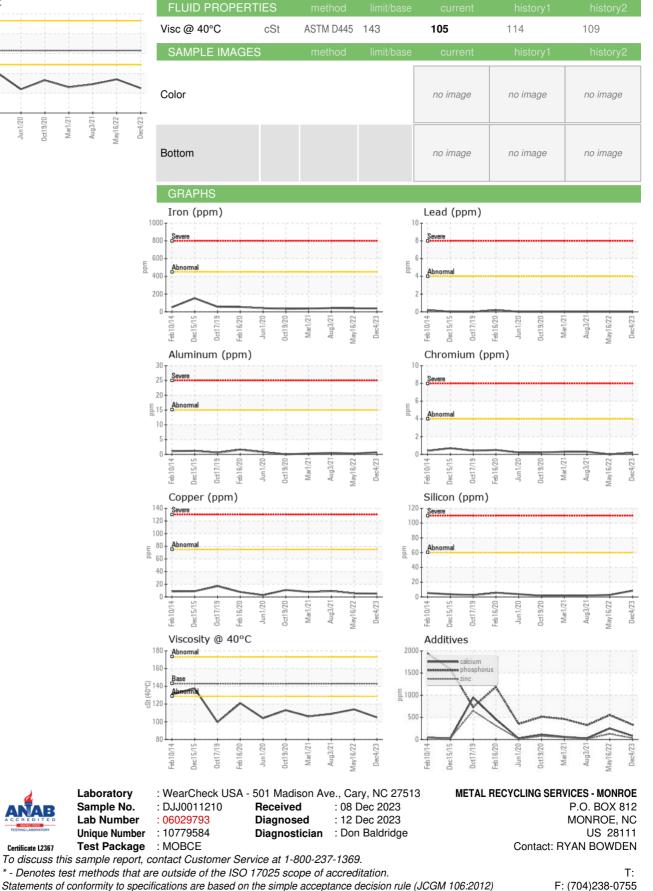
GEAR OIL SAE 80W90 (--- GAL)

DIAGNOSIS	SAMPLE INFORM			limit/base		history1	history2
Recommendation	Sample Number		Client Info		DJJ0011210	DJJ0010962	DJJ0000794
Resample at the next service interval to monitor.	Sample Date		Client Info		04 Dec 2023	16 May 2022	03 Aug 2021
Wear	Machine Age	hrs	Client Info		16052	14961	14100
All component wear rates are normal.	Oil Age	hrs	Client Info		0	1000	1000
Contamination	Oil Changed		Client Info		Changed	Changed	Changed
There is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
fluid.	CONTAMINATION	٨	method	limit/base	current	history1	history2
Fluid Condition The condition of the fluid is acceptable for the time in service.	Water		WC Method	>0.2	NEG	NEG	NEG
	WEAR METALS		method	limit/base		history1	history2
	Iron	ppm	ASTM D5185m		38	39	42
	Chromium	ppm	ASTM D5185m		<1	0	<1
	Nickel		ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	<15	v <1	<1	<1
	Lead	ppm	ASTM D5185m ASTM D5185m		<1	< 1	<1
		ppm					9
	Copper Tin	ppm	ASTM D5185m ASTM D5185m	>/5	5	6	
		ppm		4	0	<1	0
	Antimony	ppm	ASTM D5185m	>4			0
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		<1	0	0
	ADDITIVES		method	limit/base	e current	history1	history2
	Boron	ppm	ASTM D5185m	400	6	38	19
	Barium	ppm	ASTM D5185m	200	0	0	0
	Molybdenum	ppm	ASTM D5185m	12	1	5	2
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	12	15	28	8
	Calcium	ppm	ASTM D5185m	150	79	252	26
	Phosphorus	ppm	ASTM D5185m	1650	334	552	324
	Zinc	ppm	ASTM D5185m	125	31	127	14
	Sulfur	ppm	ASTM D5185m		15766	18096	13874
	CONTAMINANTS		method	limit/base	e current	history1	history2
	Silicon	ppm	ASTM D5185m	>60	8	3	2
	Sodium	ppm	ASTM D5185m	>170	0	<1	<1
	Potassium	ppm	ASTM D5185m	>20	1	<1	0
	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	LIGHT	MODER
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Report Id: METMONNC [WUSCAR] 06029793 (Generated: 12/12/2023		scalar	*Visual		NEG		
	I ICC Wale	Scalal	visual				



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Certificate L2367

Contact/Location: RYAN BOWDEN - METMONNC