

WEAR
CONTAMINATION
FLUID CONDITION

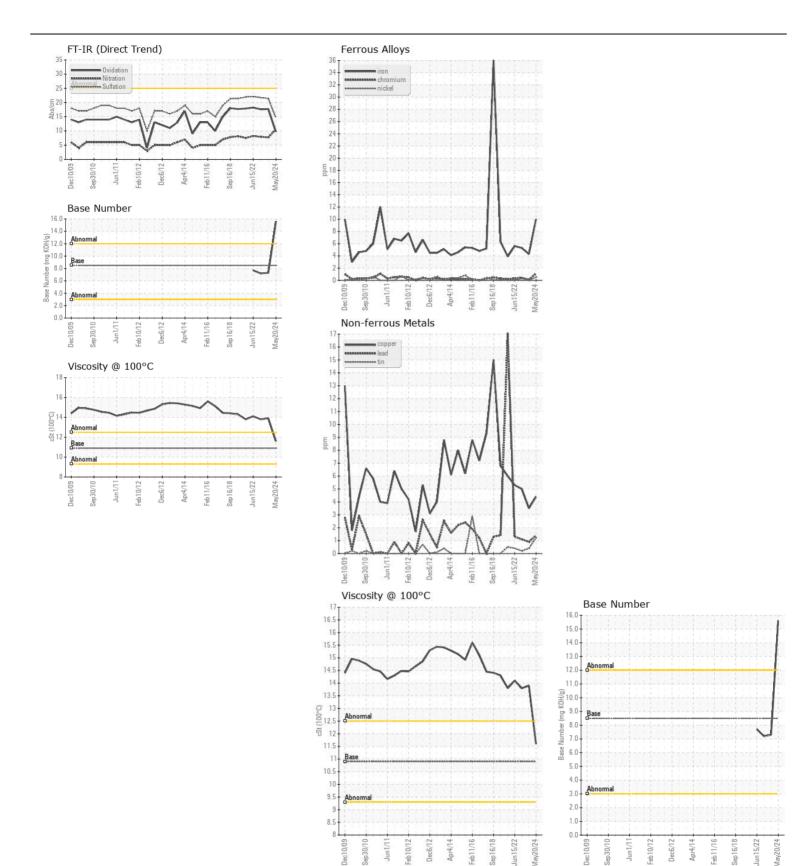
NORMAL NORMAL NORMAL



## AMR-12th Street [FT SCOTT] 23636 LIEBHERR R924CHD 025202-1066

Diesel Engine

DIESEL ENGINE OIL SAE 5W30 (8 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		DJJ0017219		DJJ0017264
	Sample Date		Client Info		20 May 2024	06 Nov 2023	27 Mar 2023
	Machine Age	hrs	Client Info		12691	12142	11581
	Oil Age	hrs	Client Info		250	250	250
	Filter Age	hrs	Client Info		250	250	250
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	10	4	5
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>15	3	1	1
	Lead	ppm	ASTM D5185m	>30	1	<1	1
	Copper	ppm	ASTM D5185m	>125	4	4	5
	Tin	ppm	ASTM D5185m	>5	1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION  There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>60	9	7	6
	Potassium	ppm	ASTM D5185m	>20	3	8	8
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	10.6	7.7	7.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	14.5	21.4	21.7
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	3	4
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	295	147	183
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	3	<1	<1
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		35	0	18
	Calcium	ppm		3000	4451	2263	2202
	Phosphorus	ppm	ASTM D5185m		980	1043	981
	Zinc	ppm	ASTM D5185m		1269	1238	1196
	Sulfur	ppm	ASTM D5185m		3296	3488	3618
	Oxidation	Abs/.1mm	*ASTM D7414		9.7	17.7	17.6
	Base Number (BN)				15.6	7.3	7.2
	Visc @ 100°C	cSt	ASTM D445	10.9	11.6	13.9	13.8







Certificate L2367

Laboratory Sample No.

: DJJ0017219 Lab Number : 06190308

Unique Number : 11047060 Test Package : CONST ( Additional Tests: TBN )

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 May 2024 **Tested** 

Diagnosed

: 27 May 2024 : 29 May 2024 - Don Baldridge

**ADVANTAGE METALS RECYCLING - 12 STREET** 1153 S. 12TH STREET

KANSAS CITY, KS US 66105

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To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - 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)