

OIL ANALYSIS REPORT

DICK LAVY Machine Id DICK LAVY 4831

Component

Transmission (Manual)

Transmission (Manual) Oil (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample.

Wear

The copper level is abnormal. Moderate concentration of visible metal present. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

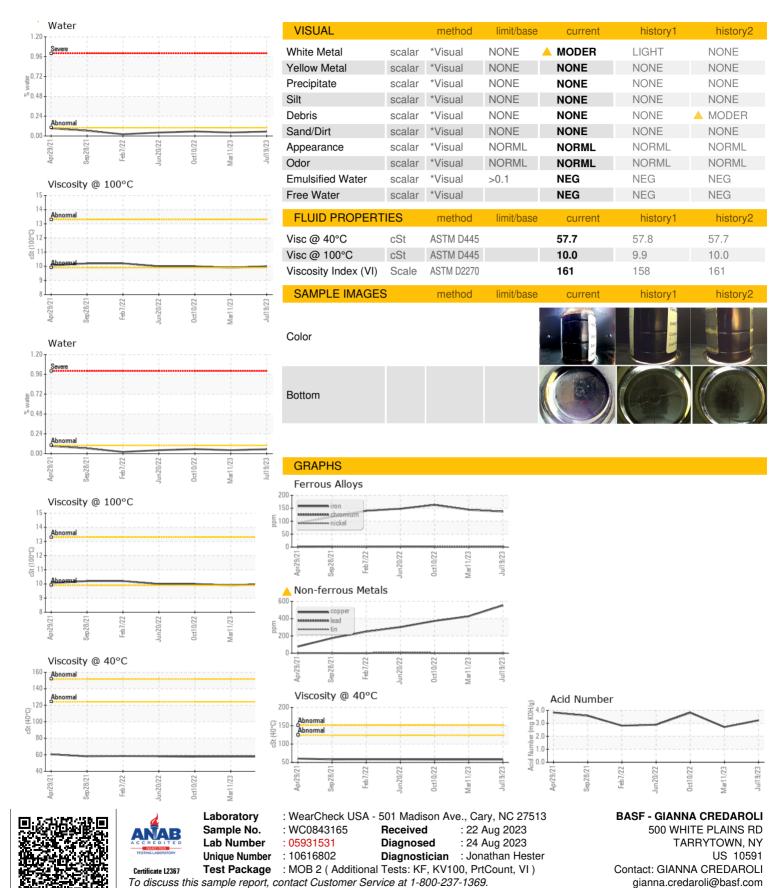
Fluid Condition

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

		Aprž021	Sep2021 Feb2022	Jun 2022 0 ct 2022 Mar 2023	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0843165	WC0797158	WC0765844
Sample Date		Client Info		19 Jul 2023	11 Mar 2023	10 Oct 2022
Machine Age	mls	Client Info		349288	301362	245417
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	137	144	163
Chromium	ppm	ASTM D5185m	>5	2	2	2
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	8	10	18
Lead	ppm	ASTM D5185m	>45	0	0	<1
Copper	ppm	ASTM D5185m	>225	△ 553	<u>▲</u> 427	△ 373
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		214	232	228
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	3	3
Manganese	ppm	ASTM D5185m		26	26	28
Magnesium	ppm	ASTM D5185m		<1	4	2
Calcium	ppm	ASTM D5185m		199	199	221
Phosphorus	ppm	ASTM D5185m		1184	1180	1264
Zinc	ppm	ASTM D5185m		145	81	50
Sulfur	ppm	ASTM D5185m		1112	1194	1142
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	27	8	10
Sodium	ppm	ASTM D5185m		2	2	0
Potassium	ppm	ASTM D5185m	>20	<1	0	2
Water	%	ASTM D6304	>0.1	0.053	0.042	0.055
ppm Water	ppm	ASTM D6304	>1000	531.6	421.8	558.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000		<u></u> 18081	
Particles >6µm		ASTM D7647	>2500		▲ 3493	
Particles >14µm		ASTM D7647	>320		200	
Particles >21µm		ASTM D7647	>80		46	
Particles >38µm		ASTM D7647	>20		1	
Particles >71µm		ASTM D7647	>4		0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15		<u>^</u> 21/19/15	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		3.23	2.71	3.82



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* - 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)

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