

OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

DICK LAVY Machine Id DICK LAVY 4837

Component

Transmission (Manual)

{not provided} (--- GAL)

Fluid

DIAGNOSIS

Recommendation

The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.

Wear

Bearing and/or gear wear is indicated.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the fluid.

Fluid Condition

The AN level is at the top-end of the recommended limit.

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	Sep2021	Mar2022	Jul2022	Oct2022	Apr2023	Aug2023	Jan 2024	
SAMPLE INFORMATION	method	limit/base		current		ŀ		

Sample Number		Client Info		WC0900869	WC0843169	WC0815543
Sample Date		Client Info		18 Jan 2024	10 Aug 2023	10 Apr 2023
Machine Age	mls	Client Info		371468	309946	256407
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	298	<u>\$\times\$</u> 285	<u></u> 312
Chromium	ppm	ASTM D5185m	>5	4	5	5
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	19	26	23
Lead	ppm	ASTM D5185m	>45	<1	0	<1
Copper	ppm	ASTM D5185m	>225	<u>288</u>	<u>4</u> 246	<u>▲</u> 271
Tin	ppm	ASTM D5185m	>10	<1	<1	<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		234	237	261
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	<1	3
Manganese	ppm	ASTM D5185m		27	28	31
Magnesium	ppm	ASTM D5185m		0	<1	2
Calcium	ppm	ASTM D5185m		198	195	211
Phosphorus	ppm	ASTM D5185m		1278	1253	1254
Zinc	ppm	ASTM D5185m		31	29	31
Sulfur	ppm	ASTM D5185m		986	1074	2032
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	11	14	17
Sodium	ppm	ASTM D5185m		0	2	0
Potassium	ppm	ASTM D5185m	>20	0	<1	2
Water	%	ASTM D6304	>0.1	0.042	0.047	0.042
ppm Water	ppm	ASTM D6304	>1000	423	479.3	422.9
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	^ 76549		▲ 46590
Particles >6µm		ASTM D7647	>2500	10635		2629
Particles >14µm		ASTM D7647	>320	156		36
Particles >21µm		ASTM D7647	>80	22		6
Particles >38µm		ASTM D7647	>20	1		0
Particles >71µm		ASTM D7647	>4	0		0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>23/21/14</u>		△ 23/19/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Asid Number (ANI)		ACTM DODAE		A 2.0E	0.70	A 4 4 4

Acid Number (AN)

mg KOH/g ASTM D8045

△ 3.72

3.95

4.11



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