

OIL ANALYSIS REPORT

Sample Rating Trend

NOF







CATERPILLAR PORT (S/N 9WR01479)

Port Transmission

SHELL ROTELLA T 40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

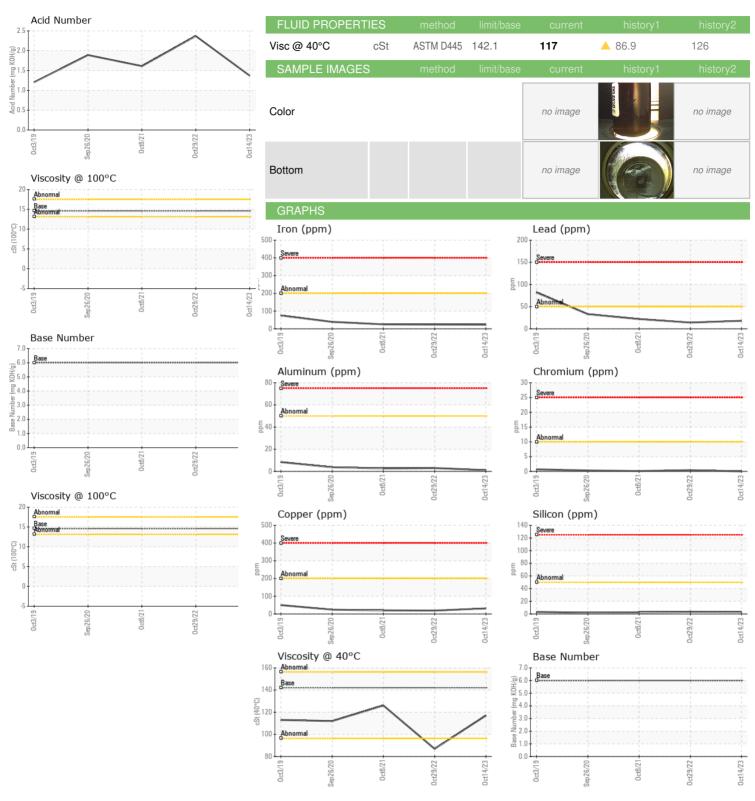
The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

(GAL)		Oct2019	Sep2020	0et2021 0et2022	0ct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RW0004162	RW0004156	RW0001506
Sample Date		Client Info		14 Oct 2023	29 Oct 2022	08 Oct 202
Machine Age	hrs	Client Info		2077	2003	1930
Oil Age	hrs	Client Info		76	73	43
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history
Iron	ppm	ASTM D5185m	>200	23	24	25
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>50	1	3	3
Lead	ppm	ASTM D5185m	>50	18	14	22
Copper	ppm	ASTM D5185m	>200	31	19	20
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	61	<u> </u>	14
Barium	ppm	ASTM D5185m		6	2	0
Molybdenum	ppm	ASTM D5185m	0	102	34	117
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	432	24	△ 38	75
Calcium	ppm	ASTM D5185m	1121	2822	2333	2473
Phosphorus	ppm	ASTM D5185m	996	1239	1003	933
Zinc	ppm	ASTM D5185m	881	1262	1155	934
Sulfur	ppm	ASTM D5185m		4296	4059	3151
CONTAMINANTS	;	method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>50	3	4	3
Sodium	ppm	ASTM D5185m		0	<1	3
Potassium	ppm	ASTM D5185m	>20	3	7	0
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history:
Acid Number (AN)	mg KOH/g	ASTM D8045		1.37	2.37	1.612
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE

FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.37	2.37	1.612
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	Submodited By:	RUNS SAGER



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Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: RW0004162 : 06009139

: 10742901

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Nov 2023 Diagnosed

: 17 Nov 2023 Diagnostician : Angela Borella

Test Package : MOB 2 (Additional Tests: FT-IR, KV100, TBN) 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)

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