

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **CT25** Component **Diesel Engine** Fluid SHELL ROTELLA T3 15W40 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		AUG2020	WHELVEN WHELVET	14042021 JUI2023	0002020	
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0791714	WC0791711	WC0580720
Sample Date		Client Info		25 Sep 2023	30 Jul 2023	17 Nov 2021
Machine Age	mls	Client Info		35946	36098	19327
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	21	26	22
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	8	12	5
Lead	mag	ASTM D5185m	>40	<1	<1	0
Copper	mag	ASTM D5185m	>330	2	3	1
Tin	ppm	ASTM D5185m	>15	- <1	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<i>c</i> 1	0	<1
Cadmium	nom	ASTM D5185m		0	<1	0
	ppin		11 11 11	U		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	10	12	88	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	10	11	52	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	10	63	346	27
Calcium	ppm	ASTM D5185m	2600	2106	1745	2570
Phosphorus	ppm	ASTM D5185m	1050	889	968	850
Zinc	ppm	ASTM D5185m	1250	1075	1187	1008
Sulfur	ppm	ASTM D5185m	3900	3578	3829	3838
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	7	6
Sodium	ppm	ASTM D5185m		2	<1	1
Potassium	ppm	ASTM D5185m	>20	<1	1	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.1	8.3	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	19.5	18.2
FLUID DEGRADA		method	limit/base	current	history1	history2
Ovidation	Abe/ 1mm	*ASTM D7/1/	<u>\</u> 25	10.5	14 9	10.2
Base Number (BNI)			10.6	7.2	8.4	7
	ing iton/g	AOTIM D2030	10.0	1.5	0.4	1



cSt (100°C)

12

Aug4/20

Inv.R/20

Mar25/21

Nov17/21

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