

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id DD4 Component Diesel Engine Fluid SHELL ROTELLA T 15W40 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

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.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0751185	WC0623136	WC0560963
Sample Date		Client Info		03 May 2023	10 May 2022	07 Jul 2021
Machine Age	mls	Client Info		82871	325	81015
Oil Age	mls	Client Info		1530	325	1800
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	11	24	9
Chromium	ppm	ASTM D5185m	>20	<1	3	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		2	17	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	0	2	1
Lead	ppm	ASTM D5185m	>40	<1	2	18
Copper	ppm	ASTM D5185m	>330	1	2	4
Tin	ppm	ASTM D5185m	>15	<1	<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	316	192	223	90
Barium	ppm	ASTM D5185m	0.0	0	3	0
Molybdenum	ppm	ASTM D5185m	1.2	<1	2	24
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	24	11	16	41
Calcium	ppm	ASTM D5185m	2292	2251	2135	2129
Phosphorus	ppm	ASTM D5185m	1064	965	992	955
Zinc	ppm	ASTM D5185m	1160	1161	1213	1153
Sulfur	ppm	ASTM D5185m	4996	3755	3617	3158
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	15	3
Sodium	ppm	ASTM D5185m		3	16	<u> </u>
Potassium	ppm	ASTM D5185m	>20	11	19	<u>▲</u> 258
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.7	6.3	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	20.5	20.8
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	16.6	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	8.61	8.58	8.28

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Contact/Location: LES CRAWFORD - CFCWIL



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