

# **OIL ANALYSIS REPORT**

### Sample Rating Trend



Machine Id **2104** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 5W30 (--- QTS)** 

#### 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 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	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0836304	WC0686106	WC0604087
Sample Date		Client Info		31 Oct 2023	20 Jul 2022	10 Aug 2021
Machine Age	mls	Client Info		371500	262219	156680
Oil Age	mls	Client Info		50000	100000	100000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINATIO	N	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/hase	current	history1	history2
			100	10	0	40
Chromium	ppm	ASTM DE185m	>100	12	62	40
Niekol	ppin	AGTIM DE105m	>20	0	<1	<1
Titonium	ppm	AGTM DE105m	>4	0	<1	-1
Silver	ppm		. 2	-1	<1	<1
Aluminum	ppm	ASTM DE105m	>3	<1	< 1	<1
Auminum	ppin	AGTIM DE105m	>20	4	0	-1
Coppor	ppm	ASTM D5185m	>40	2	10	< 1 Q
Tin	ppm	AGTM D5105m	>15		2	0 -1
Antimony	ppm	ASTM D5105III	>10	<1	2	< 1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
Cadmidin	ррш			U	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	11	9	13
Barium	ppm	ASTM D5185m	10	0	<1	0
Molybdenum	ppm	ASTM D5185m	100	19	63	61
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	220	1043	1214
Calcium	ppm	ASTM D5185m	3000	1888	872	954
Phosphorus	ppm	ASTM D5185m	1150	816	966	1000
Zinc	ppm	ASTM D5185m	1350	1075	1220	1167
Sulfur	ppm	ASTM D5185m	4250	3162	2557	2832
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14	8	8
Sodium	ppm	ASTM D5185m		<1	3	5
Potassium	ppm	ASTM D5185m	>20	2	4	26
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	1.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.6	17.5	15.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	33.7	34.2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
O distantia a						
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	39.3	35.5

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Report Id: MABEDE [WUSCAR] 06008832 (Generated: 11/17/2023 15:24:58) Rev: 1

Certificate L2367

Laboratory

Sample No.

Lab Number

Unique Number

: WC0836304

Test Package : FLEET (Additional Tests: KV40)

: 06008832

: 10742594

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.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Diagnostician

: 15 Nov 2023

: 16 Nov 2023

: Sean Felton

Received

Diagnosed

Contact/Location: MAINTENANCE ? - MABEDE

Aug10/21

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

12.2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

12.0