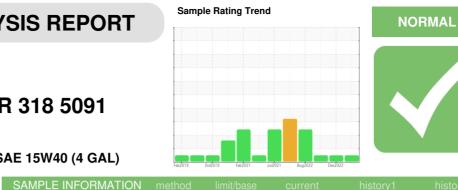


## **OIL ANALYSIS REPORT**





Machine Id **CATERPILLAR 318 5091** Component

**Diesel Engine** Fluid DIESEL ENGINE OIL SAE 15W40 (4 GAL)

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.

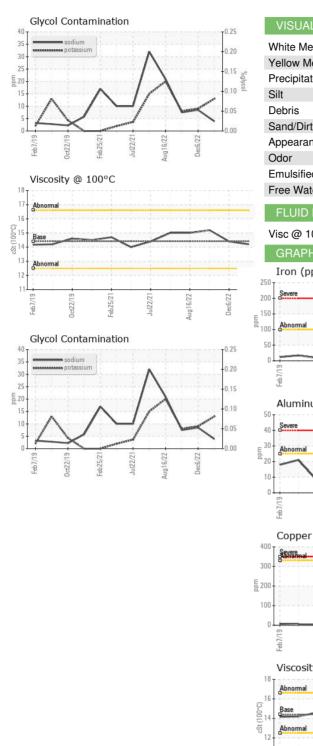
### Fluid Condition

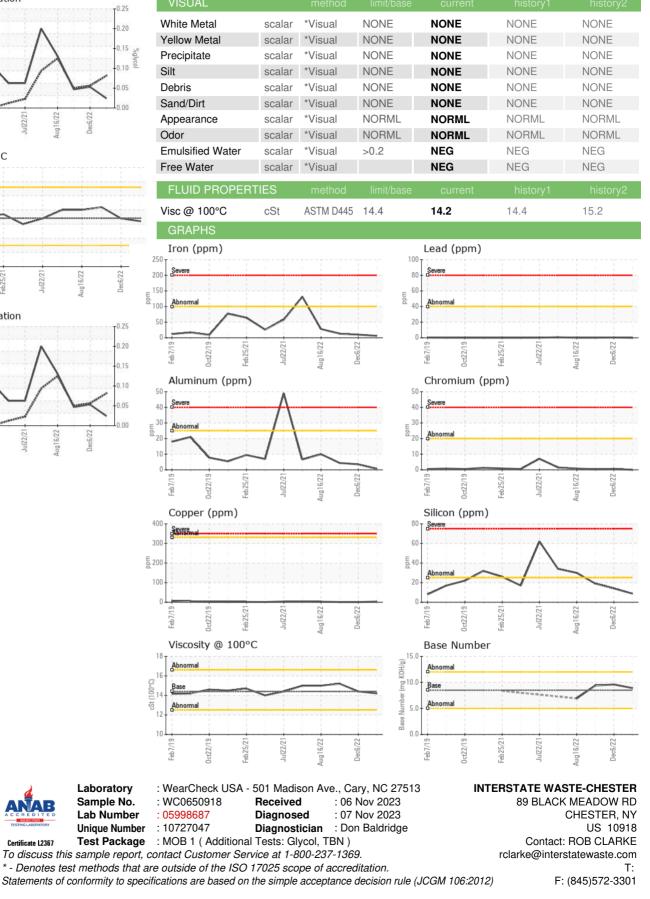
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	ATION	method	limit/base	current	nistory i	nistory2
Sample Number		Client Info		WC0650918	WC0744166	WC0744190
Sample Date		Client Info		27 Oct 2023	06 Dec 2022	14 Oct 2022
Machine Age	hrs	Client Info		11826	0	9788
Oil Age	hrs	Client Info		200	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
		and the state	Line it //n none		la facta a su at	h lata w O
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	6	10	13
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	4	4
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	3	<1	1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	ourropt	history1	history2
ADDITIVES		memou		current		,
Boron	ppm	ASTM D5185m	250	14	6	4
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	60	57	62
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	450	830	851	935
Calcium	ppm	ASTM D5185m	3000	1146	1119	1169
Phosphorus	ppm	ASTM D5185m	1150	981	971	1018
Zinc	ppm	ASTM D5185m	1350	1204	1190	1216
Sulfur	ppm	ASTM D5185m	4250	3066	3344	3659
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	14	19
Sodium	ppm	ASTM D5185m	>158	4	8	8
Potassium	ppm	ASTM D5185m	>20	13	9	8
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.5	0.6
Nitration	Abs/cm	*ASTM D7624		6.3	8.4	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	20.9	21.2
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	15.4	17.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.9	9.6	9.4



# **OIL ANALYSIS REPORT**





Certificate L2367

Laboratory

Sample No.

Lab Number

Unique Number

Contact/Location: ROB CLARKE - INTCHE