

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend



#### Machine Id **227** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 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.

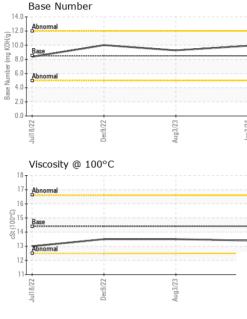
#### Fluid Condition

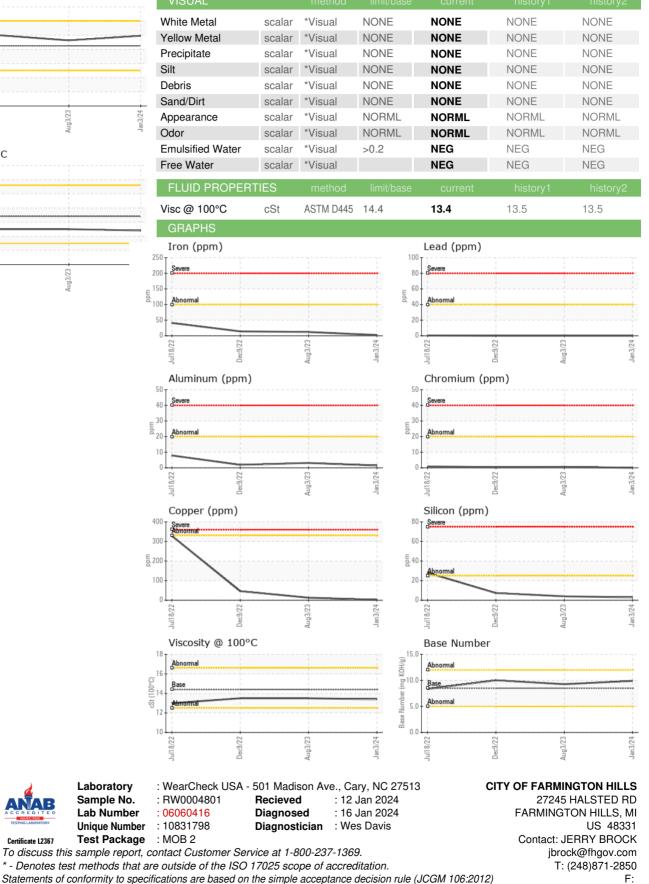
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Jul202	2 Dec2022	Aug2023 J	an2024	
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		RW0004801	RW0004361	RW0003956
Sample Date		Client Info		03 Jan 2024	03 Aug 2023	09 Dec 2022
Machine Age	hrs	Client Info		653	577	389
Oil Age	hrs	Client Info		76	188	74
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	N	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	2	12	14
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	2
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	2	3	2
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	13	46
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	8	10	32
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	60	63	65
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	910	1018	805
Calcium	ppm	ASTM D5185m	3000	1019	1101	1095
Phosphorus	ppm	ASTM D5185m	1150	1081	1096	923
Zinc	ppm	ASTM D5185m	1350	1223	1367	1113
Sulfur	ppm	ASTM D5185m	4250	3138	4088	3055
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	7
Sodium	ppm	ASTM D5185m	>158	<1	1	44
Potassium	ppm	ASTM D5185m	>20	1	1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.3	6.3	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	18.0	19.6
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	14.0	14.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.91	9.27	10.01



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Certificate L2367

Contact/Location: JERRY BROCK - CITFARMI