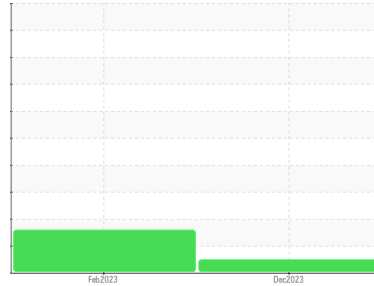


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**{UNASSIGNED}**  
Machine Id  
**DT847**  
Component  
**2 Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 30 (36 QTS)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.

### Wear

All component wear rates are normal.

### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0114738</b>	PCA0090298	---
Sample Date	Client Info		<b>26 Dec 2023</b>	01 Feb 2023	---
Machine Age	hrs	Client Info	<b>3165</b>	931	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >120	<b>27</b>	45	---
Chromium	ppm	ASTM D5185m >20	<b>1</b>	2	---
Nickel	ppm	ASTM D5185m >5	<b>4</b>	5	---
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m >20	<b>7</b>	30	---
Lead	ppm	ASTM D5185m >40	<b>1</b>	<1	---
Copper	ppm	ASTM D5185m >330	<b>12</b>	102	---
Tin	ppm	ASTM D5185m >15	<b>2</b>	6	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	<b>3</b>	80	---
Barium	ppm	ASTM D5185m 10	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 100	<b>62</b>	119	---
Manganese	ppm	ASTM D5185m	<b>1</b>	6	---
Magnesium	ppm	ASTM D5185m 450	<b>893</b>	669	---
Calcium	ppm	ASTM D5185m 3000	<b>1113</b>	1410	---
Phosphorus	ppm	ASTM D5185m 1150	<b>817</b>	650	---
Zinc	ppm	ASTM D5185m 1350	<b>1194</b>	836	---
Sulfur	ppm	ASTM D5185m 4250	<b>2639</b>	2261	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>12</b>	▲ 76	---
Sodium	ppm	ASTM D5185m >75	<b>0</b>	3	---
Potassium	ppm	ASTM D5185m >20	<b>19</b>	70	---
Fuel	%	ASTM D3524 >3.0	<b>&lt;1.0</b>	0.5	---

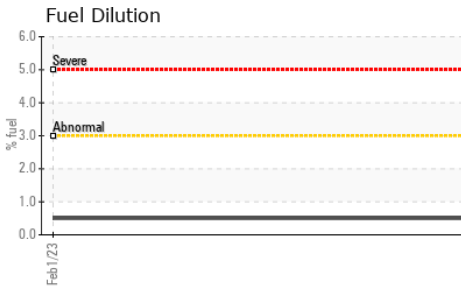
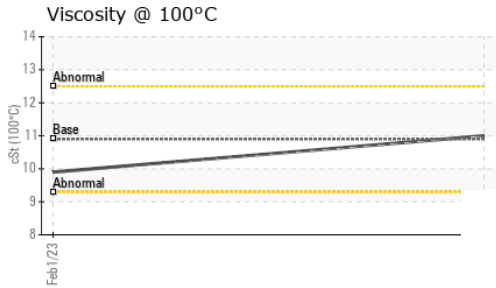
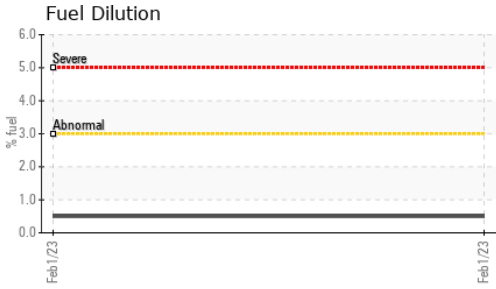
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >4	<b>0.8</b>	0.6	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.6</b>	11.9	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.8</b>	24.3	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>17.2</b>	23.8	---
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	<b>5.7</b>	6.8	---

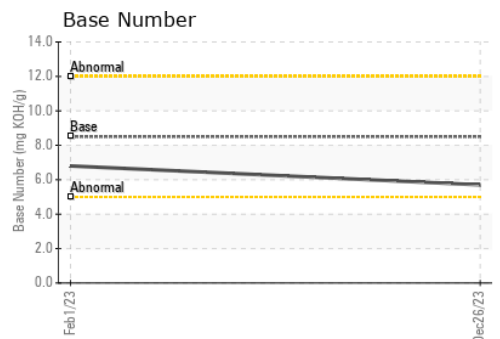
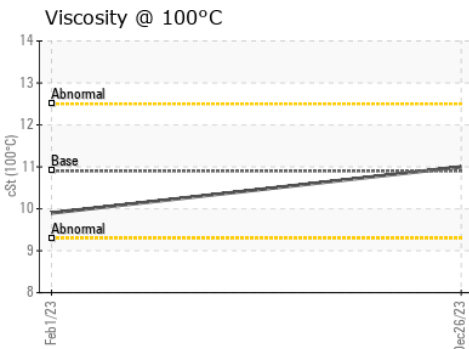
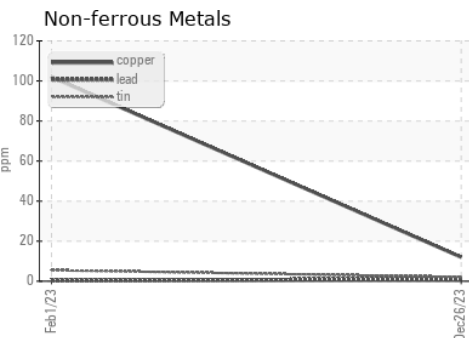
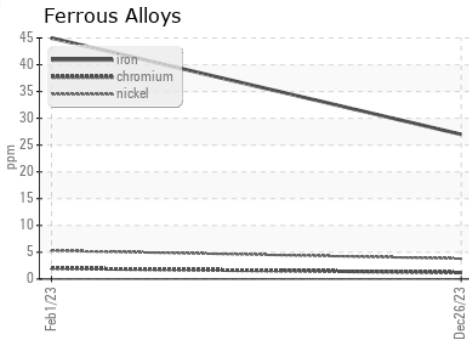
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	10.9	<b>11.0</b>	9.9	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0114738 **Received** : 09 Jan 2024  
**Lab Number** : 06055260 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821209 **Diagnostician** : Wes Davis  
**Test Package** : FLEET ( Additional Tests: FuelDilution )

**NW WHITE & CO - COLUMBIA DIVISION**  
 100 INDEPENDENCE BLVD  
 COLUMBIA, SC  
 US 29210  
 Contact: GEORGE EDWARDS  
 gedwards@nwwhite.com

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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:  
F: