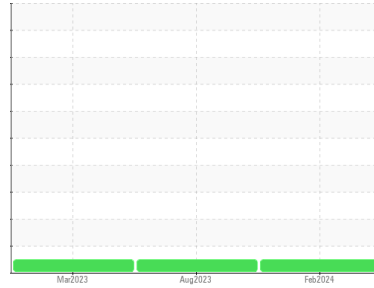


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**FLEET**  
Machine Id  
**VOLVO 2126935 (S/N 4V4NC9EH2NN603255)**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 30 (42 QTS)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

### 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>PCA0118707</b>	PCA0099312	PCA0093668
Sample Date	Client Info			<b>14 Feb 2024</b>	24 Aug 2023	30 Mar 2023
Machine Age	mls Client Info			<b>83962</b>	48772	27250
Oil Age	mls Client Info			<b>15813</b>	21522	27250
Oil Changed	Client Info			<b>Not Chngd</b>	Not Chngd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>6.0		<b>&lt;1.0</b>	<1.0	0.5
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>100		<b>15</b>	27	53
Chromium	ppm ASTM D5185m	>20		<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185m	>2		<b>&lt;1</b>	<1	2
Titanium	ppm ASTM D5185m			<b>0</b>	0	0
Silver	ppm ASTM D5185m	>2		<b>&lt;1</b>	1	0
Aluminum	ppm ASTM D5185m	>25		<b>4</b>	21	37
Lead	ppm ASTM D5185m	>40		<b>1</b>	<1	3
Copper	ppm ASTM D5185m	>330		<b>16</b>	76	85
Tin	ppm ASTM D5185m	>15		<b>2</b>	2	6
Vanadium	ppm ASTM D5185m			<b>0</b>	0	0
Cadmium	ppm ASTM D5185m			<b>0</b>	0	0

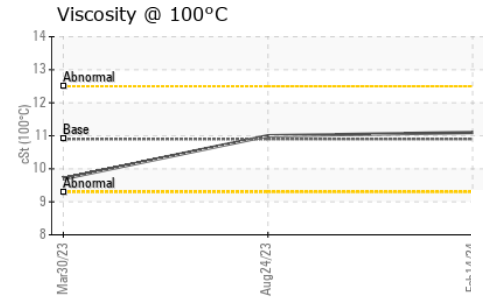
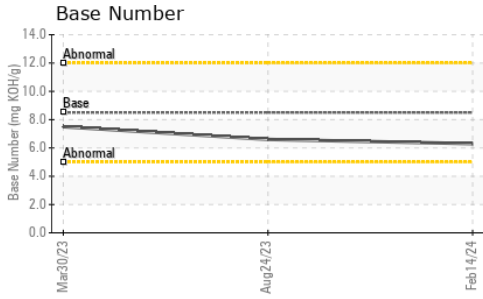
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	250		<b>3</b>	11	157
Barium	ppm ASTM D5185m	10		<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m	100		<b>58</b>	68	114
Manganese	ppm ASTM D5185m			<b>&lt;1</b>	1	5
Magnesium	ppm ASTM D5185m	450		<b>871</b>	937	668
Calcium	ppm ASTM D5185m	3000		<b>985</b>	1201	1423
Phosphorus	ppm ASTM D5185m	1150		<b>902</b>	966	698
Zinc	ppm ASTM D5185m	1350		<b>1141</b>	1222	875
Sulfur	ppm ASTM D5185m	4250		<b>2651</b>	3468	2539

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25		<b>5</b>	10	32
Sodium	ppm ASTM D5185m	>75		<b>2</b>	2	5
Potassium	ppm ASTM D5185m	>20		<b>11</b>	54	96

INFRA-RED		method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3		<b>0.4</b>	0.3	0.3
Nitration	Abs/cm *ASTM D7624	>20		<b>10.0</b>	9.4	10.2
Sulfation	Abs/.1mm *ASTM D7415	>30		<b>20.0</b>	20.5	23.8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25		<b>16.7</b>	17.0	22.1
Base Number (BN)	mg KOH/g ASTM D2896	8.5		<b>6.3</b>	6.6	7.5

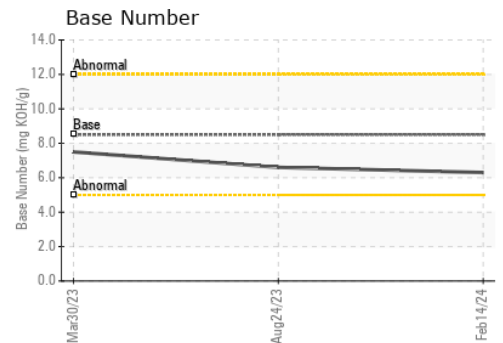
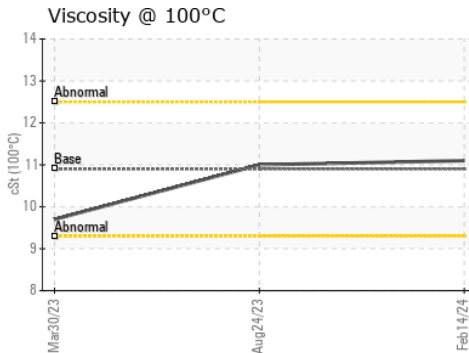
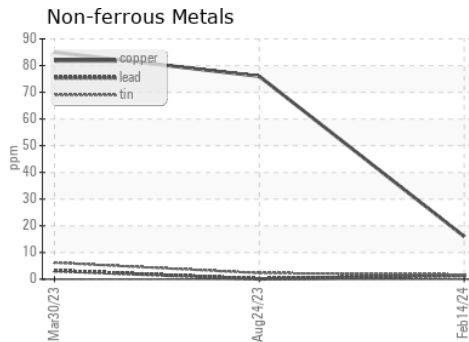
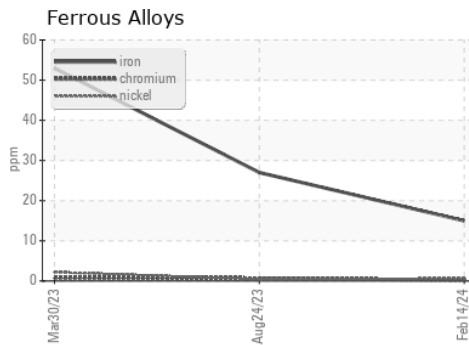
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	10.9	<b>11.1</b>	11.0	9.7

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0118707      **Received** : 23 Feb 2024  
**Lab Number** : **06098126**      **Tested** : 25 Feb 2024  
**Unique Number** : 10896356      **Diagnosed** : 25 Feb 2024 - Wes Davis  
**Test Package** : FLEET

**PERDUE FARMS - ACCOMAC**  
 22520 LANKFORD HWY  
 ACCOMAC, VA  
 US 23301  
 Contact: PEGGY KIMES  
 peggy.kimes@perdue.com  
 T: (757)787-5304  
 F: (757)787-5208

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)