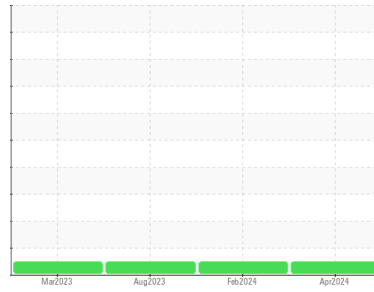


OIL ANALYSIS REPORT

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

Sample Rating Trend

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		PCA0119907	PCA0118707	PCA0099312
Sample Date	Client Info		11 Apr 2024	14 Feb 2024	24 Aug 2023
Machine Age	mls	Client Info	103802	83962	48772
Oil Age	mls	Client Info	47090	15813	21522
Oil Changed	Client Info		Changed	Not Changd	Not Changd
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<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	25	15	27
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	<1	<1	1
Aluminum	ppm	ASTM D5185m	>25	4	4	21
Lead	ppm	ASTM D5185m	>40	<1	1	<1
Copper	ppm	ASTM D5185m	>330	18	16	76
Tin	ppm	ASTM D5185m	>15	2	2	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	250	2	3	11
Barium	ppm	ASTM D5185m	10	2	0	0
Molybdenum	ppm	ASTM D5185m	100	61	58	68
Manganese	ppm	ASTM D5185m		2	<1	1
Magnesium	ppm	ASTM D5185m	450	956	871	937
Calcium	ppm	ASTM D5185m	3000	1150	985	1201
Phosphorus	ppm	ASTM D5185m	1150	973	902	966
Zinc	ppm	ASTM D5185m	1350	1269	1141	1222
Sulfur	ppm	ASTM D5185m	4250	3225	2651	3468

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	5	10
Sodium	ppm	ASTM D5185m	>75	4	2	2
Potassium	ppm	ASTM D5185m	>20	11	11	54

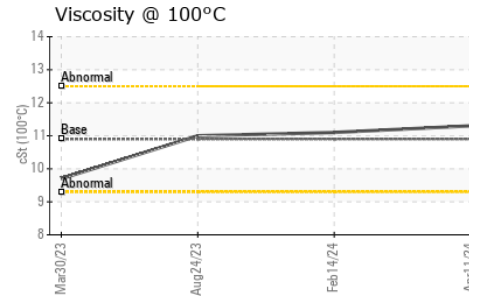
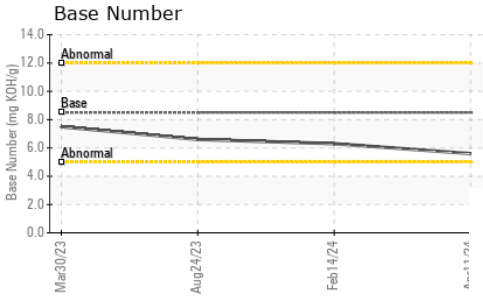
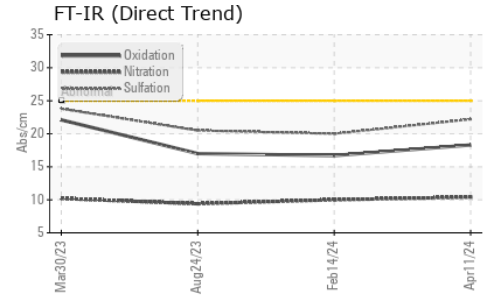
INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	10.4	10.0	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	20.0	20.5

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	16.7	17.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.6	6.3	6.6

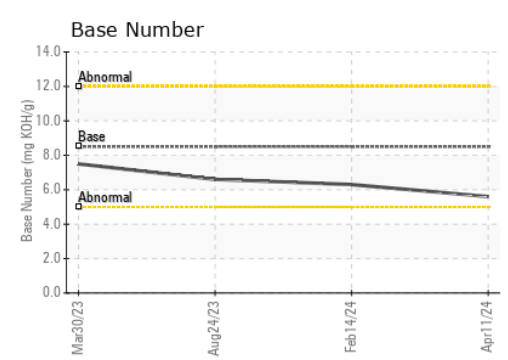
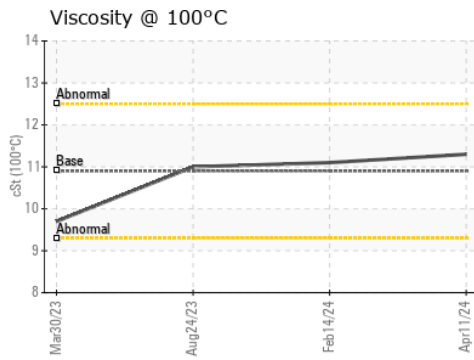
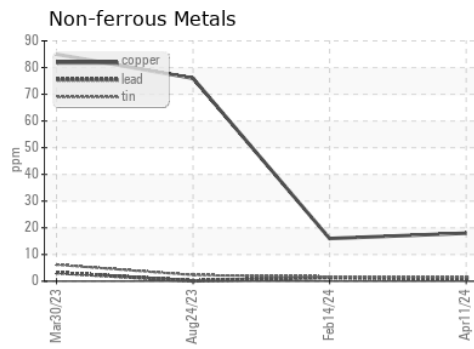
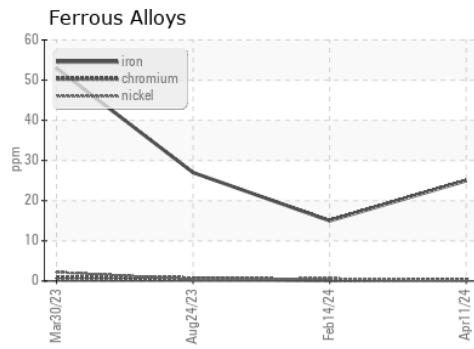
OIL ANALYSIS REPORT



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	11.3	11.1

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0119907 **Received** : 22 Apr 2024
Lab Number : 06155682 **Tested** : 23 Apr 2024
Unique Number : 10991105 **Diagnosed** : 23 Apr 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)