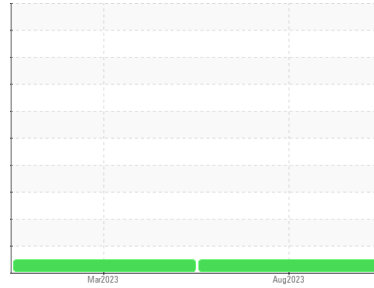


OIL ANALYSIS REPORT

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. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.

Wear

Metal levels are typical for a new component breaking in.

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			PCA0099312	PCA0093668	---
Sample Date	Client Info			24 Aug 2023	30 Mar 2023	---
Machine Age	mls	Client Info		48772	27250	---
Oil Age	mls	Client Info		21522	27250	---
Oil Changed	Client Info			Not Chngd	Changed	---
Sample Status				NORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Glycol	WC Method			NEG	NEG	---

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

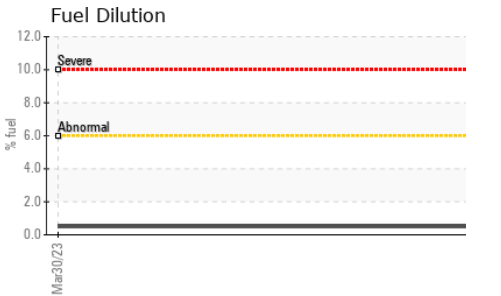
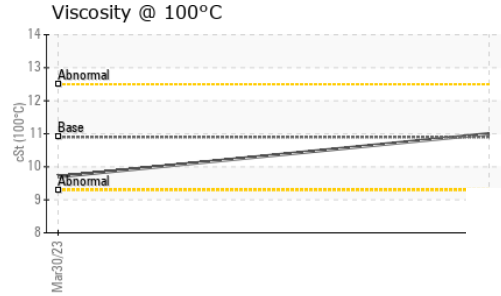
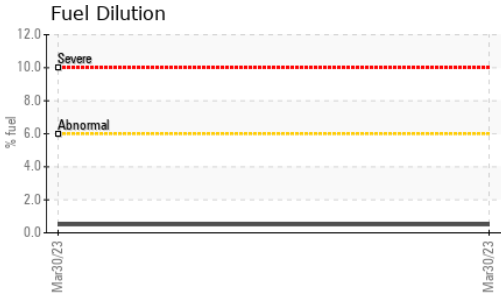
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	11	157	---
Barium	ppm	ASTM D5185m	10	0	0	---
Molybdenum	ppm	ASTM D5185m	100	68	114	---
Manganese	ppm	ASTM D5185m		1	5	---
Magnesium	ppm	ASTM D5185m	450	937	668	---
Calcium	ppm	ASTM D5185m	3000	1201	1423	---
Phosphorus	ppm	ASTM D5185m	1150	966	698	---
Zinc	ppm	ASTM D5185m	1350	1222	875	---
Sulfur	ppm	ASTM D5185m	4250	3468	2539	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	32	---
Sodium	ppm	ASTM D5185m	>75	2	5	---
Potassium	ppm	ASTM D5185m	>20	54	96	---
Fuel	%	ASTM D3524	>6.0	<1.0	0.5	---

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

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

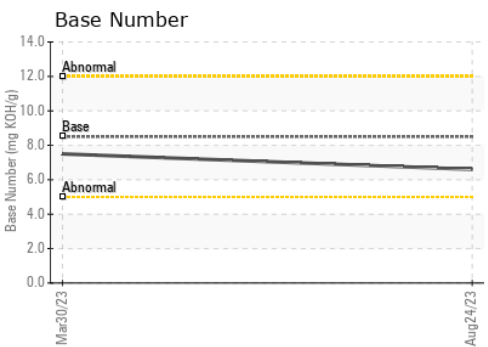
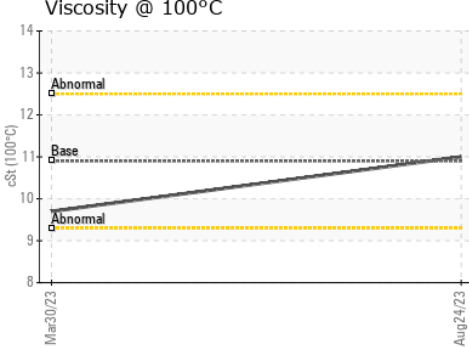
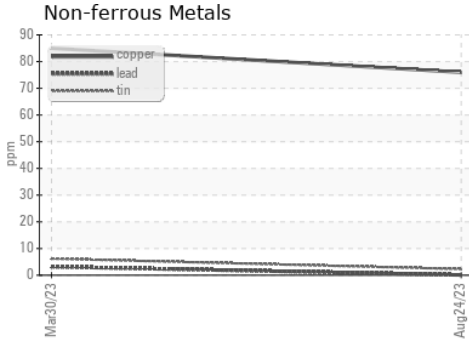
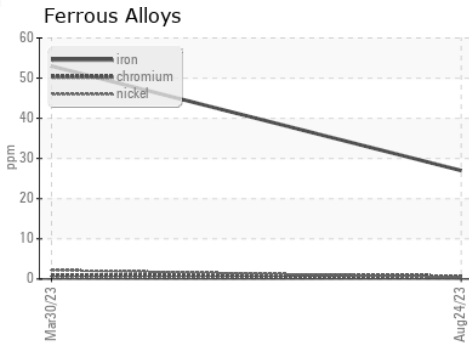
OIL ANALYSIS REPORT



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	11.0	9.7	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0099312 **Received** : 07 Sep 2023
Lab Number : **05944472** **Diagnosed** : 08 Sep 2023
Unique Number : 10635084 **Diagnostician** : Wes Davis
Test Package : FLEET (Additional Tests: FuelDilution)

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)