



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
FLEET/DILLON
Machine Id
Volvo (S/N 4v4nc9eh6nn603212)
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0116229	PCA0104851	---
Sample Date		Client Info		12 Jan 2024	17 Aug 2023	---
Machine Age	mls	Client Info		20000	20000	---
Oil Age	mls	Client Info		20000	0	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	50	32	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	6	20	---
Lead	ppm	ASTM D5185m	>40	1	1	---
Copper	ppm	ASTM D5185m	>330	69	148	---
Tin	ppm	ASTM D5185m	>15	2	3	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

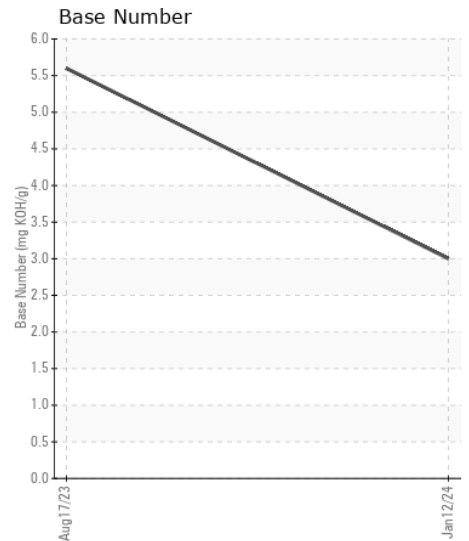
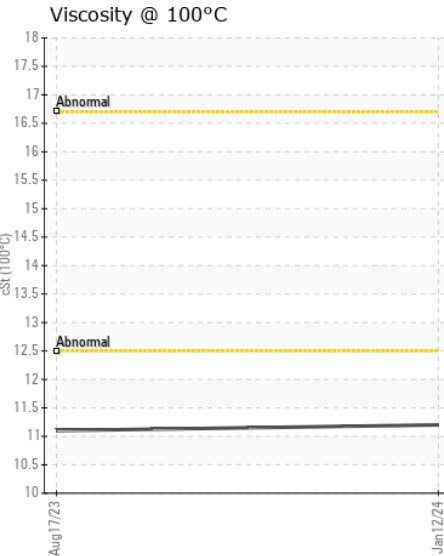
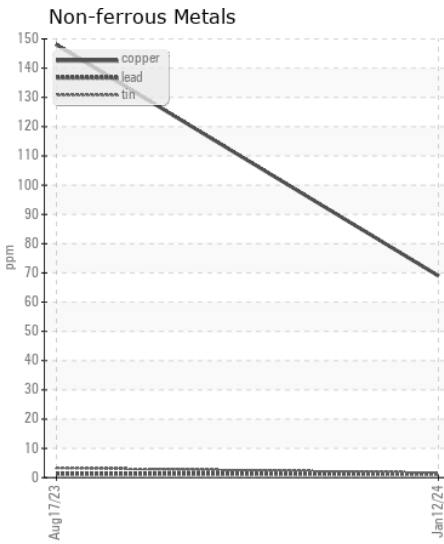
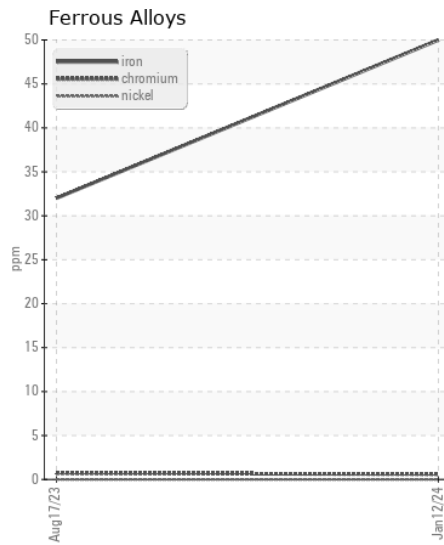
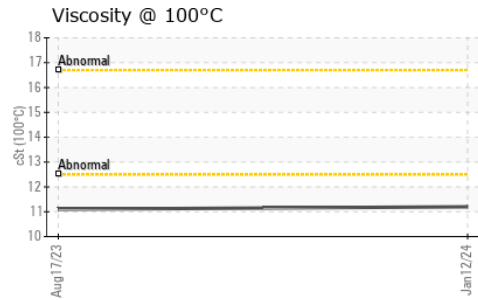
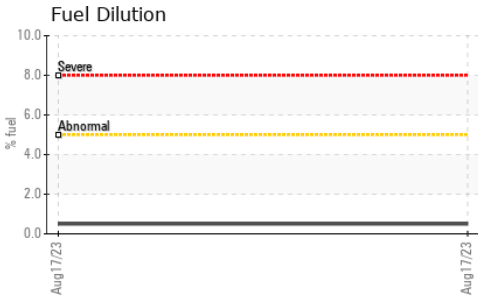
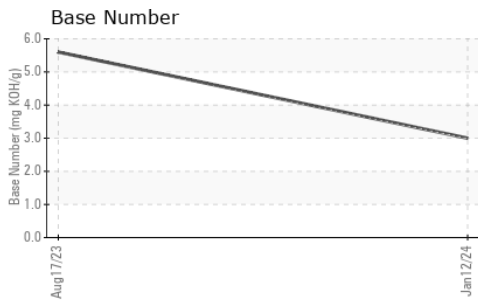
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	12	---
Potassium	ppm	ASTM D5185m	>20	20	43	---
Fuel	%	ASTM D3524	>5	<1.0	0.5	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.6	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	15.3	10.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.6	22.1	---
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	---

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.

Sodium	ppm	ASTM D5185m		0	2	---
Boron	ppm	ASTM D5185m		1	4	---
Barium	ppm	ASTM D5185m		8	0	---
Molybdenum	ppm	ASTM D5185m		66	66	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m		875	900	---
Calcium	ppm	ASTM D5185m		1020	1135	---
Phosphorus	ppm	ASTM D5185m		783	856	---
Zinc	ppm	ASTM D5185m		1105	1173	---
Sulfur	ppm	ASTM D5185m		2140	2827	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.7	18.7	---
Base Number (BN)	mg KOH/g	ASTM D2896		3.0	5.6	---
Visc @ 100°C	cSt	ASTM D445		11.2	11.1	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0116229 **Received** : 14 Feb 2024
Lab Number : 06088536 **Tested** : 15 Feb 2024
Unique Number : 10875981 **Diagnosed** : 15 Feb 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

PERDUE FARMS - DILLON
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 DILLON, SC
 US 29536
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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)