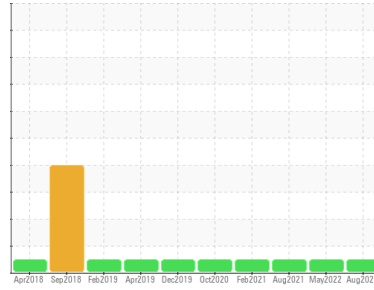


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
VOLVO 26344

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (36 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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	PCA0101167	PCA0071195	PCA0054999	
Sample Date	Client Info	29 Aug 2023	30 May 2022	07 Aug 2021	
Machine Age	mls	Client Info	445731	20000	369492
Oil Age	mls	Client Info	20000	20000	20000
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
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	37	59	27
Chromium	ppm ASTM D5185m >20	<1	<1	<1
Nickel	ppm ASTM D5185m >2	<1	1	<1
Titanium	ppm ASTM D5185m	<1	1	<1
Silver	ppm ASTM D5185m >2	0	0	0
Aluminum	ppm ASTM D5185m >25	5	7	4
Lead	ppm ASTM D5185m >40	3	2	2
Copper	ppm ASTM D5185m >330	5	8	4
Tin	ppm ASTM D5185m >15	1	2	<1
Antimony	ppm ASTM D5185m	---	---	0
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 2	3	5	6
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 50	58	59	56
Manganese	ppm ASTM D5185m 0	1	<1	<1
Magnesium	ppm ASTM D5185m 950	995	877	841
Calcium	ppm ASTM D5185m 1050	1122	1150	1061
Phosphorus	ppm ASTM D5185m 995	1024	980	938
Zinc	ppm ASTM D5185m 1180	1319	1213	1163
Sulfur	ppm ASTM D5185m 2600	3213	2484	2150

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	5	7	4
Sodium	ppm ASTM D5185m	16	13	7
Potassium	ppm ASTM D5185m >20	4	1	1

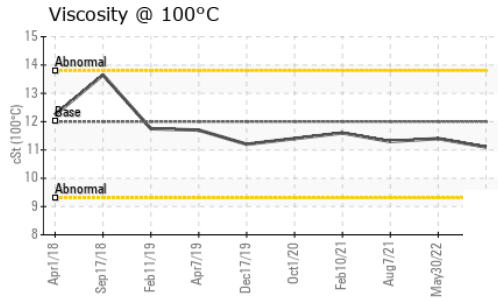
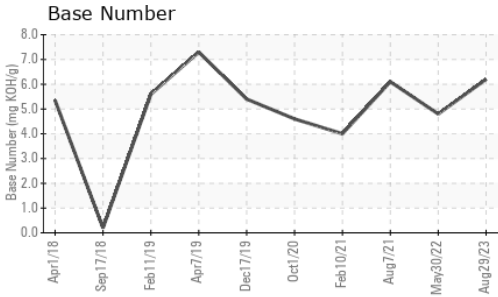
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.5	0.4	0.3
Nitration	Abs/cm *ASTM D7624 >20	9.7	11.8	10.2
Sulfation	Abs/.1mm *ASTM D7415 >30	21.4	24.1	21

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	18.4	21.6	18.2
Base Number (BN)	mg KOH/g ASTM D2896	6.2	4.8	6.1

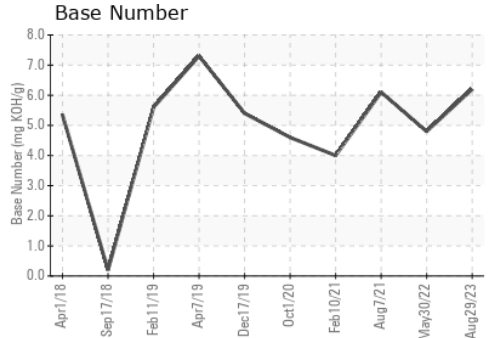
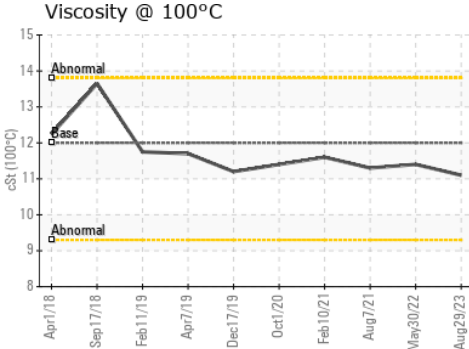
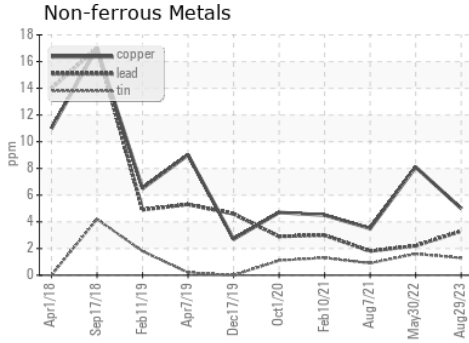
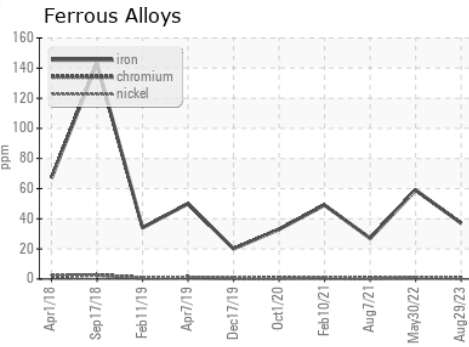
OIL ANALYSIS REPORT



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	12.00	11.1	11.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0101167 **Received** : 11 Sep 2023
Lab Number : 05946939 **Diagnosed** : 12 Sep 2023
Unique Number : 10642898 **Diagnostician** : Wes Davis
Test Package : FLEET

PERDUE FARMS - SALISBURY
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 SALISBURY, MD
 US 21802
 Contact: RICHARD O'NEAL
 richard.oneal@perdue.com
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 F: (410)341-2164

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)