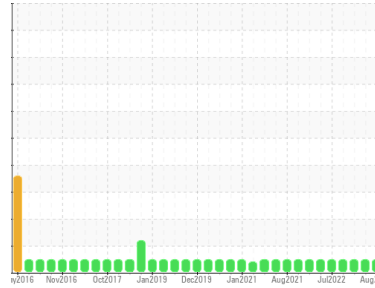


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
FLEET
Machine Id
2016 VOLVO 26426 (S/N 4V4MC9EG1GN973652)
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

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	PCA0088723	PCA0092466	PCA0087205	
Sample Date	Client Info	05 Aug 2023	21 May 2023	20 Jan 2023	
Machine Age	mls	Client Info	813225	0	756899
Oil Age	mls	Client Info	15000	15000	20000
Oil Changed	Client Info	Not Chngd	Changed	Not Chngd	
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	23	12	12
Chromium	ppm ASTM D5185m >20	<1	<1	<1
Nickel	ppm ASTM D5185m >2	0	<1	<1
Titanium	ppm ASTM D5185m	<1	2	3
Silver	ppm ASTM D5185m >2	0	0	0
Aluminum	ppm ASTM D5185m >25	2	2	2
Lead	ppm ASTM D5185m >40	<1	<1	1
Copper	ppm ASTM D5185m >330	2	1	1
Tin	ppm ASTM D5185m >15	<1	1	<1
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	0	2	2
Barium	ppm ASTM D5185m 0	0	0	<1
Molybdenum	ppm ASTM D5185m 50	61	58	58
Manganese	ppm ASTM D5185m 0	<1	<1	<1
Magnesium	ppm ASTM D5185m 950	915	986	915
Calcium	ppm ASTM D5185m 1050	1120	1089	1221
Phosphorus	ppm ASTM D5185m 995	977	1011	1010
Zinc	ppm ASTM D5185m 1180	1220	1260	1308
Sulfur	ppm ASTM D5185m 2600	2693	3347	3262

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	5	5	4
Sodium	ppm ASTM D5185m	17	12	6
Potassium	ppm ASTM D5185m >20	4	2	<1

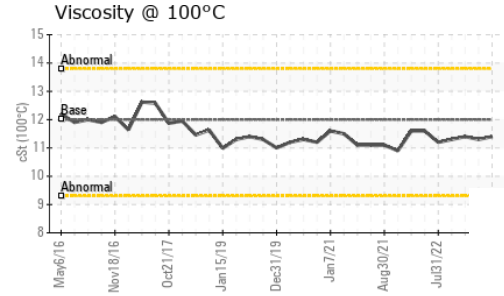
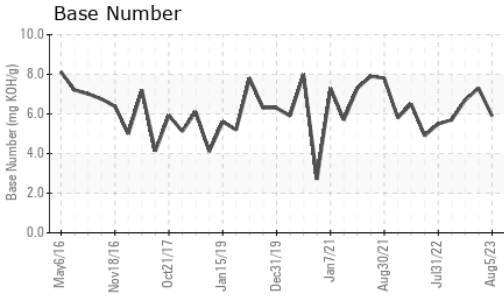
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.7	0.4	0.4
Nitration	Abs/cm *ASTM D7624 >20	8.9	8.5	8.9
Sulfation	Abs/.1mm *ASTM D7415 >30	21.1	20.5	20.4

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	17.6	16.7	16.8
Base Number (BN)	mg KOH/g ASTM D2896	5.9	7.3	6.7

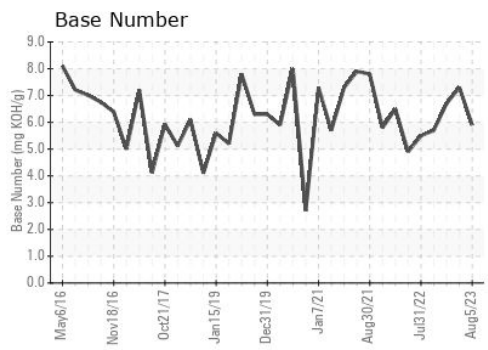
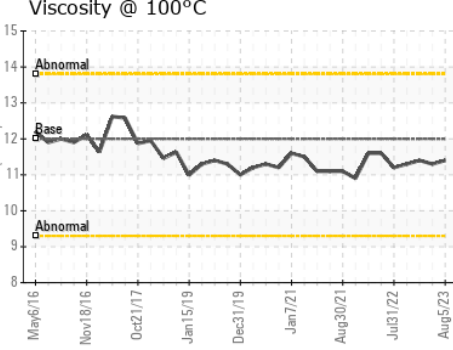
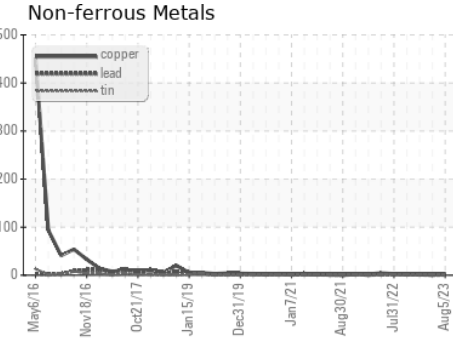
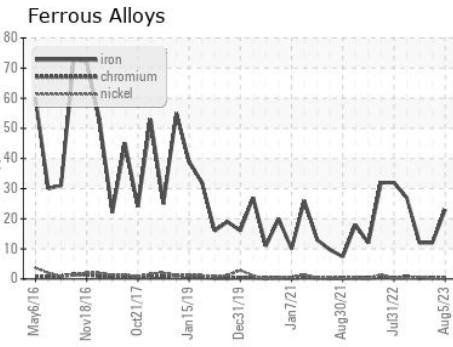
OIL ANALYSIS REPORT



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	11.4	11.3	11.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0088723 **Received** : 23 Aug 2023
Lab Number : **05932603** **Diagnosed** : 24 Aug 2023
Unique Number : 10617874 **Diagnostician** : Wes Davis
Test Package : FLEET

PERDUE FARMS - SALISBURY
 7036 ZION CHURCH ROAD
 SALISBURY, MD
 US 21802
 Contact: RICHARD O'NEAL
 richard.oneal@perdue.com
 T: (410)543-3628
 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)