

OIL ANALYSIS REPORT

Sample Rating Trend

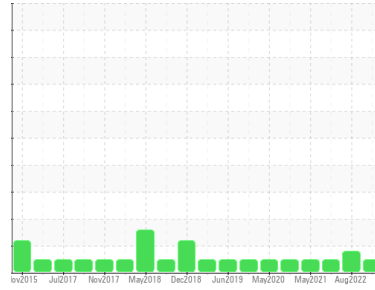
NORMAL



Machine Id
VOLVO 26308 (S/N 4V4MC9EG4FN930308)

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (38 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	PCA0092268	PCA0076505	PCA0061642	
Sample Date	Client Info	24 Mar 2023	05 Aug 2022	15 Nov 2021	
Machine Age	mls	Client Info	436808	420964	403799
Oil Age	mls	Client Info	15844	402184	0
Oil Changed	Client Info	Not Changed	Changed	Not Changed	
Sample Status		NORMAL	MARGINAL	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	49	▲ 128	53
Chromium	ppm ASTM D5185m >20	1	1	<1
Nickel	ppm ASTM D5185m >2	6	2	1
Titanium	ppm ASTM D5185m	11	6	<1
Silver	ppm ASTM D5185m >2	0	0	0
Aluminum	ppm ASTM D5185m >25	4	7	5
Lead	ppm ASTM D5185m >40	1	3	2
Copper	ppm ASTM D5185m >330	9	11	6
Tin	ppm ASTM D5185m >15	<1	1	<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	2
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 50	51	55	55
Manganese	ppm ASTM D5185m 0	1	2	<1
Magnesium	ppm ASTM D5185m 950	799	790	829
Calcium	ppm ASTM D5185m 1050	1158	1112	991
Phosphorus	ppm ASTM D5185m 995	957	955	868
Zinc	ppm ASTM D5185m 1180	1179	1173	1094
Sulfur	ppm ASTM D5185m 2600	2578	2597	2010

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	12	9	5
Sodium	ppm ASTM D5185m	2	2	3
Potassium	ppm ASTM D5185m >20	3	5	0

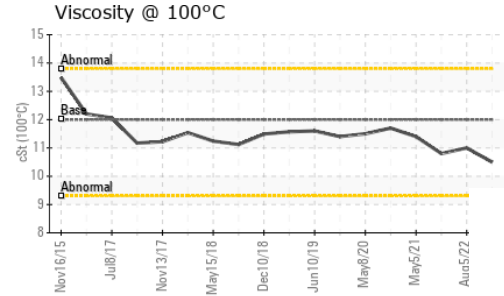
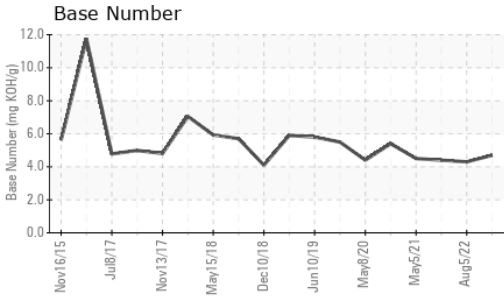
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.7	1.5	1.1
Nitration	Abs/cm *ASTM D7624 >20	10.8	15.2	11.6
Sulfation	Abs/.1mm *ASTM D7415 >30	22.1	28.6	24

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	18.6	28.1	20.5
Base Number (BN)	mg KOH/g ASTM D2896	4.7	4.3	4.4

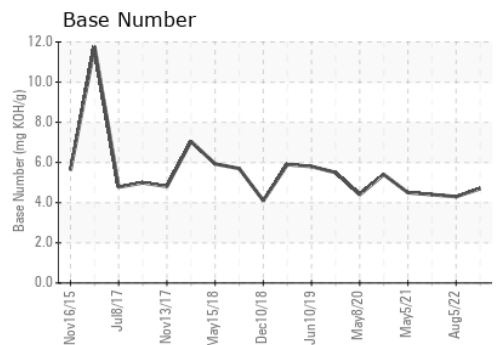
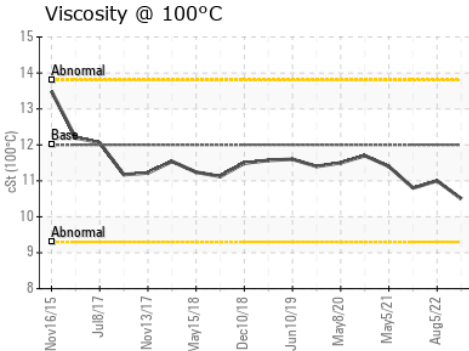
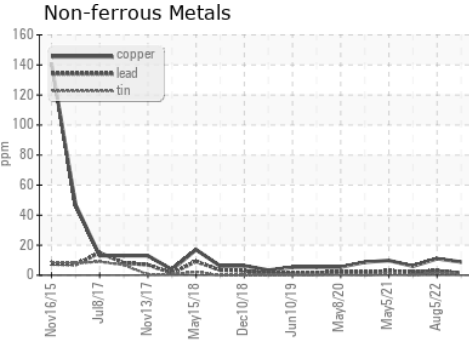
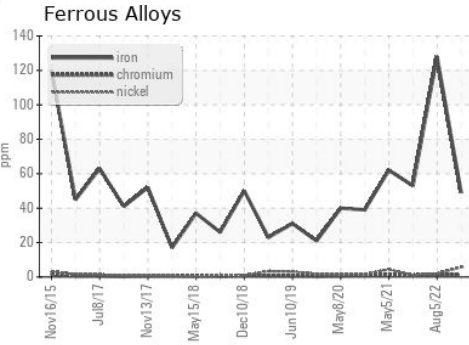
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VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
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	10.5	11.0	10.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0092268 **Received** : 22 Aug 2023
Lab Number : **05930724** **Diagnosed** : 23 Aug 2023
Unique Number : 10615995 **Diagnostician** : Don Baldrige
Test Package : FLEET

PERDUE FARMS - BRIDGEVILLE
 8634 E NEWTON RD
 BRIDGEVILLE, DE
 US 19933
 Contact: GEORGE LACATES

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)

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