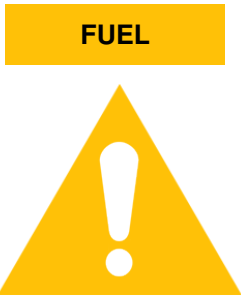
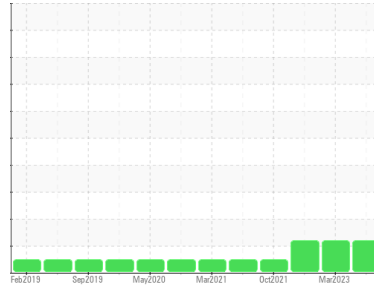


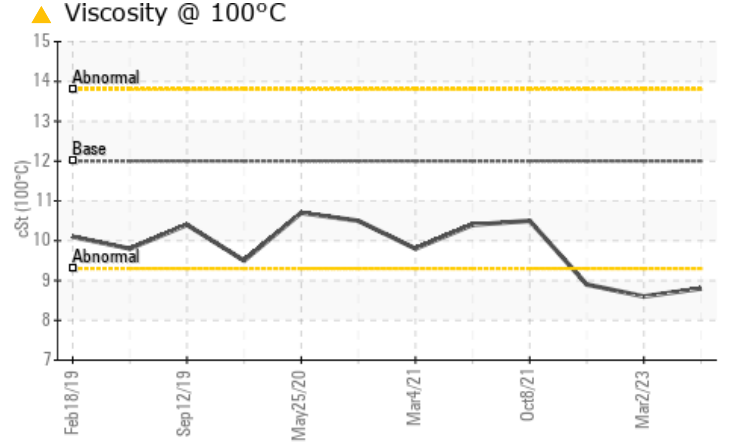
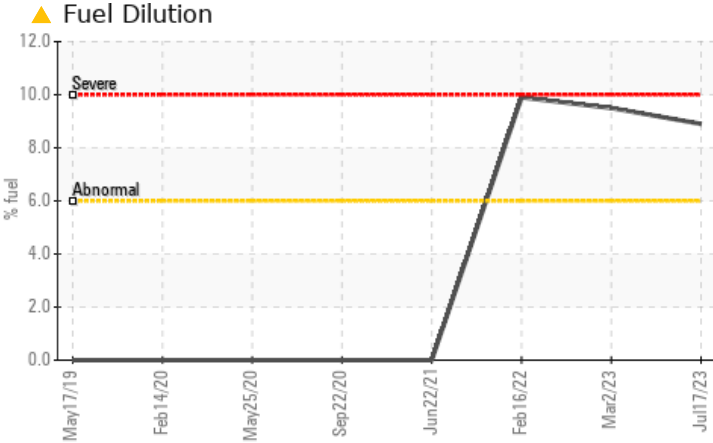
PROBLEM SUMMARY

Sample Rating Trend



Machine Id
VOLVO 26425
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (38 QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Fuel	%	ASTM D3524	>6.0	▲ 8.9	▲ 9.5	▲ 9.9
Visc @ 100°C	cSt	ASTM D445	12.00	▲ 8.8	▲ 8.6	▲ 8.9

Customer Id: PERBRIDE
 Sample No.: PCA0100539
 Lab Number: 05930719
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Fuel/injector System	---	---	?	We advise that you check the fuel injection system.

HISTORICAL DIAGNOSIS

02 Mar 2023 Diag: Doug Bogart

FUEL



We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

view report



16 Feb 2022 Diag: Don Baldrige

FUEL



We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report



08 Oct 2021 Diag: Jonathan Hester

NORMAL

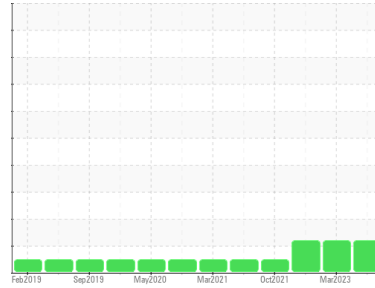


Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



Machine Id
VOLVO 26425
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (38 QTS)



DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0100539	PCA0092272	PCA0065610
Sample Date	Client Info		17 Jul 2023	02 Mar 2023	16 Feb 2022
Machine Age	mls	Client Info	401876	384444	362589
Oil Age	mls	Client Info	380021	21855	344884
Oil Changed	Client Info		Changed	Not Changd	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

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

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	61	34	15
Chromium	ppm	ASTM D5185m >20	1	<1	<1
Nickel	ppm	ASTM D5185m >2	4	4	0
Titanium	ppm	ASTM D5185m	15	14	8
Silver	ppm	ASTM D5185m >2	0	0	<1
Aluminum	ppm	ASTM D5185m >25	4	4	3
Lead	ppm	ASTM D5185m >40	3	0	1
Copper	ppm	ASTM D5185m >330	8	7	2
Tin	ppm	ASTM D5185m >15	<1	0	<1
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	2	4	6
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	38	30	43
Manganese	ppm	ASTM D5185m 0	<1	<1	<1
Magnesium	ppm	ASTM D5185m 950	610	517	681
Calcium	ppm	ASTM D5185m 1050	990	862	979
Phosphorus	ppm	ASTM D5185m 995	780	658	895
Zinc	ppm	ASTM D5185m 1180	979	803	1059
Sulfur	ppm	ASTM D5185m 2600	2389	2541	1834

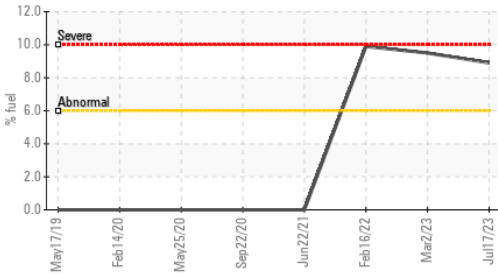
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	9	5	3
Sodium	ppm	ASTM D5185m	8	8	2
Potassium	ppm	ASTM D5185m >20	4	3	5
Fuel	%	ASTM D3524 >6.0	▲ 8.9	▲ 9.5	▲ 9.9

INFRA-RED	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.1	0.8	0.5
Nitration	Abs/cm	*ASTM D7624 >20	11.2	10.1	10.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	24.3	21.1	20.7

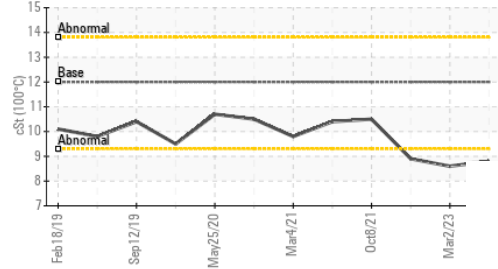
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	19.4	15.8	15.6
Base Number (BN)	mg KOH/g	ASTM D2896	3.6	5.0	6.4

OIL ANALYSIS REPORT

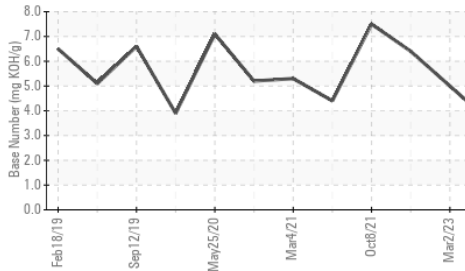
▲ Fuel Dilution



▲ Viscosity @ 100°C



Base Number

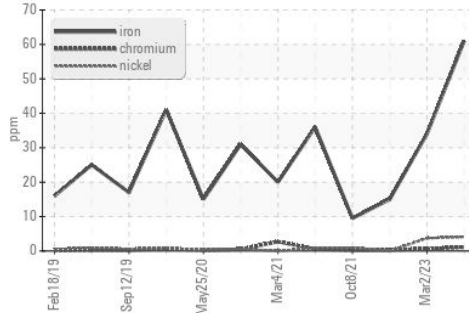


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

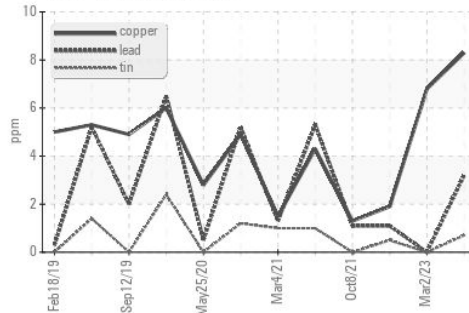
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00 ▲ 8.8	▲ 8.6	▲ 8.9

GRAPHS

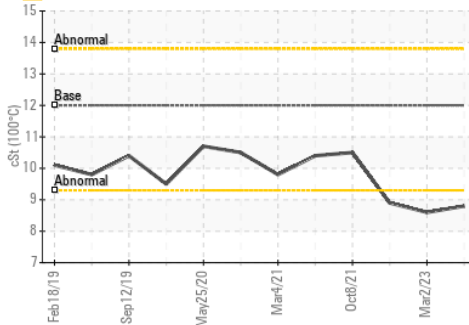
Ferrous Alloys



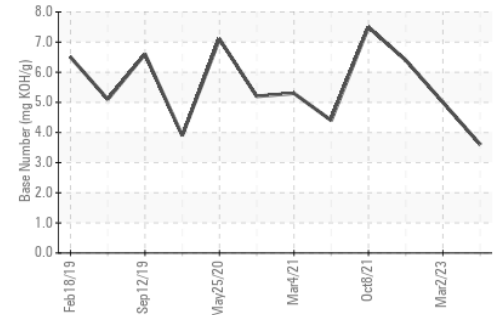
Non-ferrous Metals



▲ Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0100539 **Received** : 22 Aug 2023
Lab Number : 05930719 **Diagnosed** : 23 Aug 2023
Unique Number : 10615990 **Diagnostician** : Don Baldrige
Test Package : FLEET (Additional Tests: PercentFuel)

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)

T:
F: