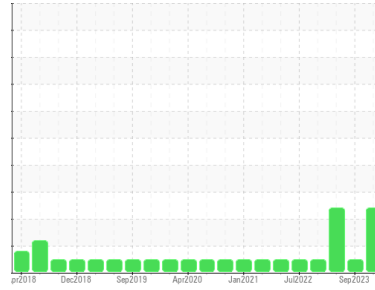


PROBLEM SUMMARY

Sample Rating Trend



GLYCOL



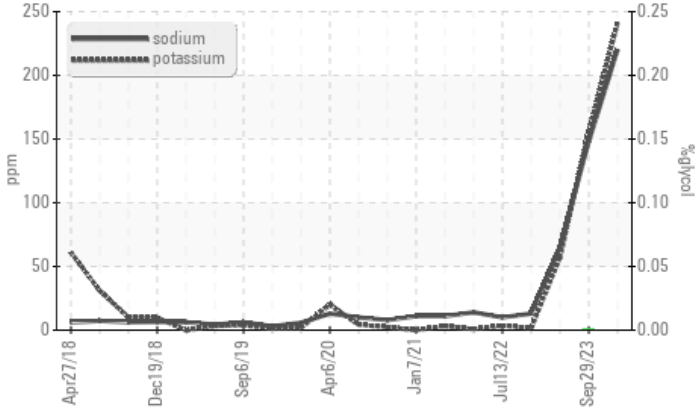
Machine Id
VOLVO VNR 26607 (S/N 4V4WC9EH2JN901285)

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (33 QTS)

COMPONENT CONDITION SUMMARY

▲ Glycol Contamination



RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	ABNORMAL
Sodium	ppm	ASTM D5185m	▲ 220	148	▲ 65
Potassium	ppm	ASTM D5185m >20	▲ 241	156	▲ 57

Customer Id: PERWAS
Sample No.: PCA0094587
Lab Number: 06029865
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Glycol Access	---	---	?	We advise that you check for the source of the coolant leak.

HISTORICAL DIAGNOSIS

29 Sep 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. Test for glycol is negative. 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



05 Apr 2023 Diag: Jonathan Hester

GLYCOL



We advise that you check for possible coolant leak. Check for low coolant level. 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. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report



07 Nov 2022 Diag: Wes Davis

NORMAL



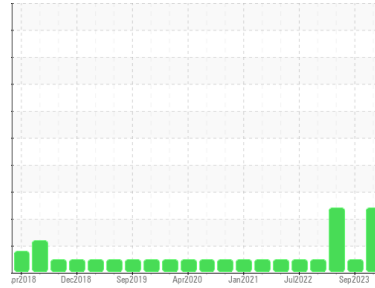
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report





Machine Id
VOLVO VNR 26607 (S/N 4V4WC9EH2JN901285)
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (33 QTS)



DIAGNOSIS

- Recommendation**
We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.
- Wear**
All component wear rates are normal.
- Contamination**
Sodium and/or potassium levels are high.
- Fluid Condition**
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		PCA0094587	PCA0094589	PCA0052354
Sample Date	Client Info		28 Nov 2023	29 Sep 2023	05 Apr 2023
Machine Age	mls	Client Info	573819	546602	499500
Oil Age	mls	Client Info	27217	46802	31359
Oil Changed	Client Info		N/A	Changed	Changed
Sample Status			ABNORMAL	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	25	54	29
Chromium	ppm	ASTM D5185m >20	<1	1	1
Nickel	ppm	ASTM D5185m >2	<1	<1	1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >2	0	<1	<1
Aluminum	ppm	ASTM D5185m >25	2	1	2
Lead	ppm	ASTM D5185m >40	0	4	<1
Copper	ppm	ASTM D5185m >330	4	9	6
Tin	ppm	ASTM D5185m >15	0	<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	<1	0	2
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	78	73	65
Manganese	ppm	ASTM D5185m 0	0	<1	<1
Magnesium	ppm	ASTM D5185m 950	932	933	974
Calcium	ppm	ASTM D5185m 1050	1110	1118	1104
Phosphorus	ppm	ASTM D5185m 995	935	1021	995
Zinc	ppm	ASTM D5185m 1180	1234	1260	1248
Sulfur	ppm	ASTM D5185m 2600	2655	2696	3124

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	6	9	6
Sodium	ppm	ASTM D5185m	▲ 220	148	▲ 65
Potassium	ppm	ASTM D5185m >20	▲ 241	156	▲ 57
Glycol	%	*ASTM D2982	NEG	0.0	NEG

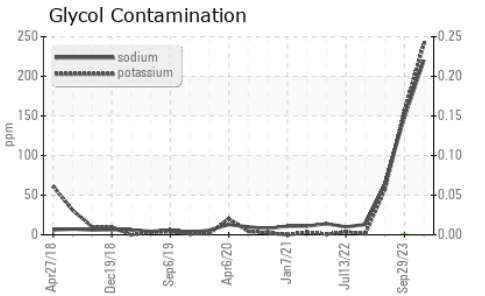
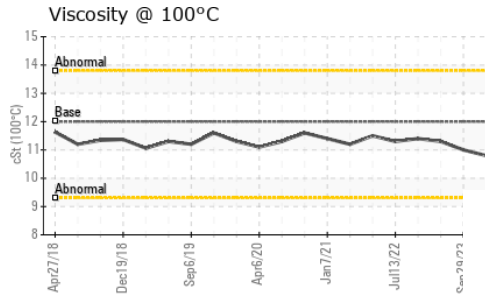
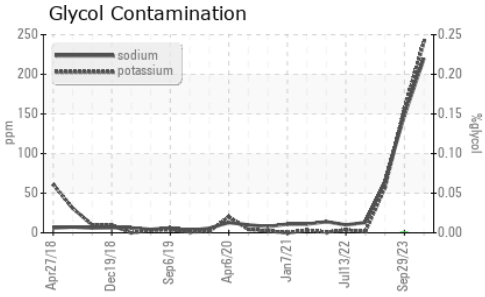
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.4	0.8	0.6
Nitration	Abs/cm	*ASTM D7624 >20	9.4	11.7	10.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.3	24.6	23.0

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.6	20.9	18.6
Base Number (BN)	mg KOH/g	ASTM D2896	5.2	4.2	5.5

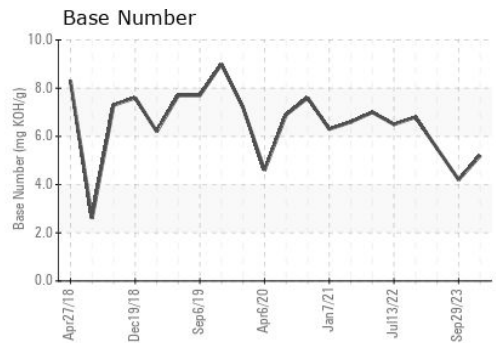
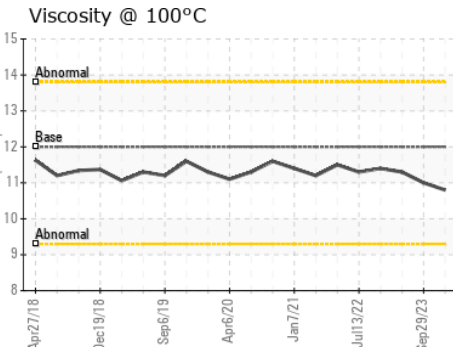
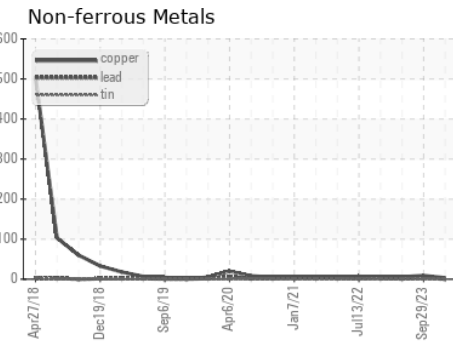
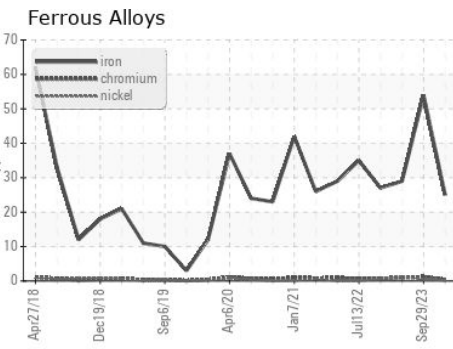
OIL ANALYSIS REPORT



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	10.8	11.0	11.3

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0094587
Lab Number : **06029865**
Unique Number : 10779656
Test Package : FLEET (Additional Tests: Glycol)

Received : 08 Dec 2023
Diagnosed : 13 Dec 2023
Diagnostician : Jonathan Hester

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US 47501
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F:

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)