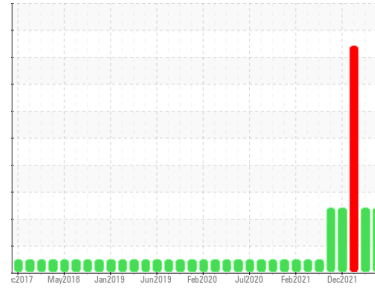


OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id
VOLVO L120G 120-G-3 (S/N 030848)
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (7 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of the 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.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels remain 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		PCA0090840	PCA0072130	PCA0072074
Sample Date	Client Info		25 Oct 2023	12 Sep 2022	08 Sep 2022
Machine Age	hrs	Client Info	17965	17561	17459
Oil Age	hrs	Client Info	404	102	350
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	SEVERE

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	78	15	29
Chromium	ppm	ASTM D5185m >20	3	1	2
Nickel	ppm	ASTM D5185m >2	<1	<1	<1
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m >2	0	<1	<1
Aluminum	ppm	ASTM D5185m >25	9	4	10
Lead	ppm	ASTM D5185m >40	<1	1	6
Copper	ppm	ASTM D5185m >330	3	1	4
Tin	ppm	ASTM D5185m >15	1	<1	2
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	5	8
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	76	82	180
Manganese	ppm	ASTM D5185m	1	1	<1
Magnesium	ppm	ASTM D5185m	891	924	856
Calcium	ppm	ASTM D5185m	1064	1148	1127
Phosphorus	ppm	ASTM D5185m	1088	996	990
Zinc	ppm	ASTM D5185m	1163	1241	1179
Sulfur	ppm	ASTM D5185m	2981	3590	3105

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	8	4	7
Sodium	ppm	ASTM D5185m	▲ 160	▲ 269	▲ 1178
Potassium	ppm	ASTM D5185m >20	▲ 146	▲ 176	▲ 774
Glycol	%	*ASTM D2982	NEG	NEG	0.20

INFRA-RED

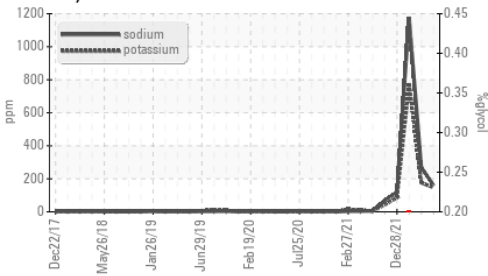
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.7	0.2	0.4
Nitration	Abs/cm	*ASTM D7624 >20	8.6	6.7	11.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	20.0	19.4	20.8

FLUID DEGRADATION

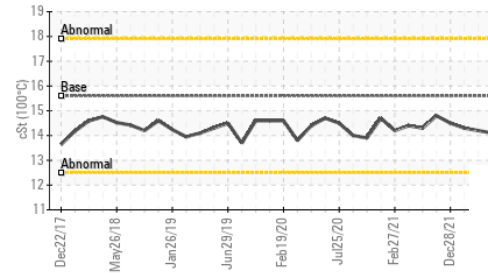
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	14.9	13.9	15.0
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	10.94	10.5	13.1

OIL ANALYSIS REPORT

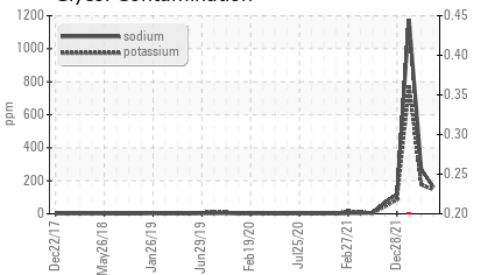
Glycol Contamination



Viscosity @ 100°C



Glycol Contamination

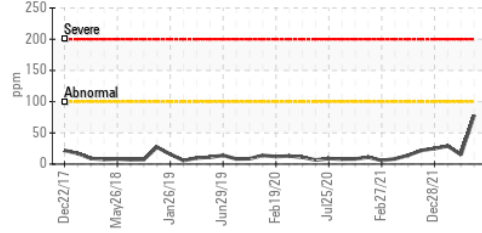


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

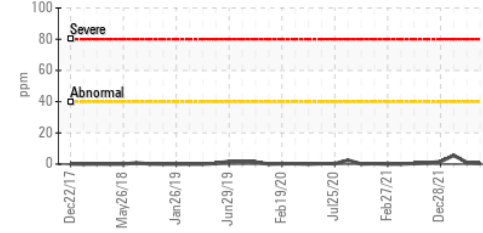
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.6	14.1	14.2	14.3

GRAPHS

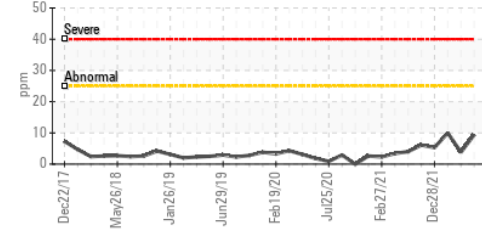
Iron (ppm)



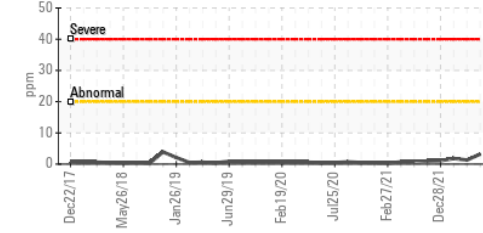
Lead (ppm)



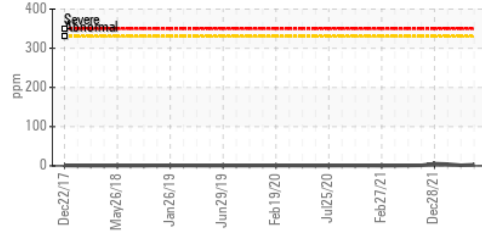
Aluminum (ppm)



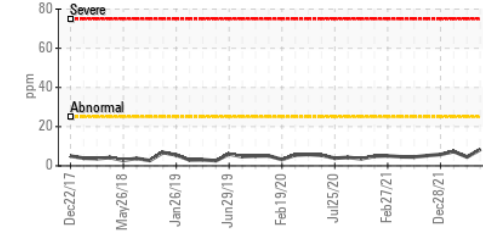
Chromium (ppm)



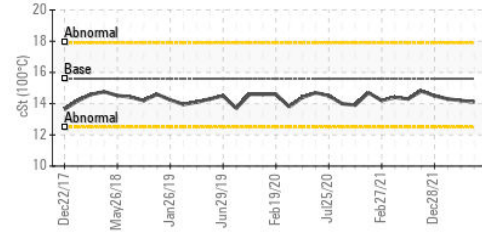
Copper (ppm)



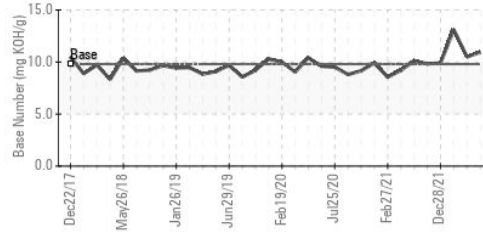
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0090840 **Received** : 31 Oct 2023
Lab Number : 05994516 **Diagnosed** : 03 Nov 2023
Unique Number : 10722876 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: Glycol)

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 E WEYMOUTH, MA
 US 02189
 Contact: JOHN LANG
 gnalj1970@comcast.net
 T: (617)435-7199
 F: (781)337-4150

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)