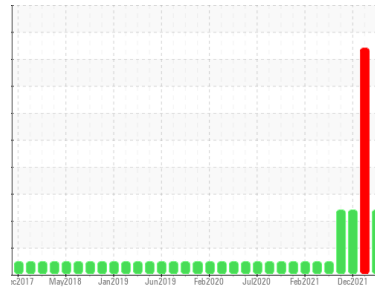


OIL ANALYSIS REPORT

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		PCA0072130	PCA0072074	PCA0059373
Sample Date	Client Info		12 Sep 2022	08 Sep 2022	28 Dec 2021
Machine Age	hrs	Client Info	17561	17459	16812
Oil Age	hrs	Client Info	102	350	162
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	SEVERE	ABNORMAL

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	15	29	25
Chromium	ppm	ASTM D5185m	>20	1	2	1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>25	4	10	5
Lead	ppm	ASTM D5185m	>40	1	6	2
Copper	ppm	ASTM D5185m	>330	1	4	6
Tin	ppm	ASTM D5185m	>15	<1	2	1
Antimony	ppm	ASTM D5185m		---	---	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		5	8	12
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		82	180	71
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		924	856	941
Calcium	ppm	ASTM D5185m		1148	1127	1099
Phosphorus	ppm	ASTM D5185m		996	990	1020
Zinc	ppm	ASTM D5185m		1241	1179	1219
Sulfur	ppm	ASTM D5185m		3590	3105	2969

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	7	6
Sodium	ppm	ASTM D5185m		▲ 269	▲ 1178	▲ 115
Potassium	ppm	ASTM D5185m	>20	▲ 176	▲ 774	▲ 86
Glycol	%	*ASTM D2982		NEG	0.20	NEG

INFRA-RED

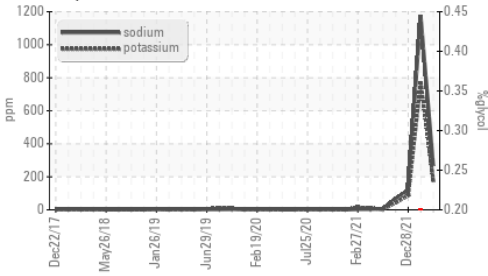
	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.7	11.0	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	20.8	19.4

FLUID DEGRADATION

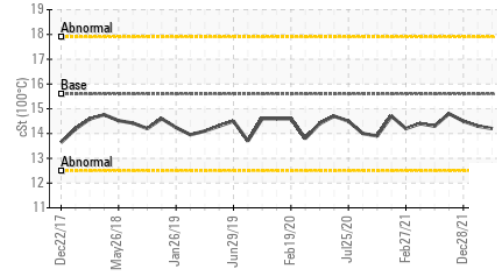
	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	15.0	14.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.5	13.1	9.90

OIL ANALYSIS REPORT

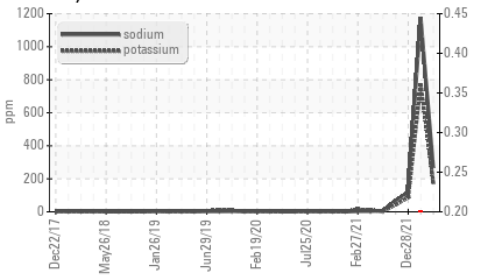
Glycol Contamination



Viscosity @ 100°C



Glycol Contamination

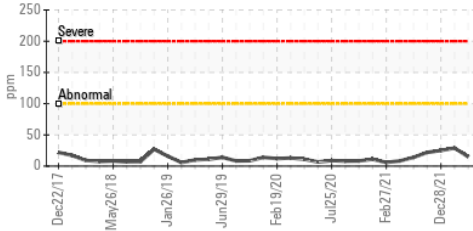


PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

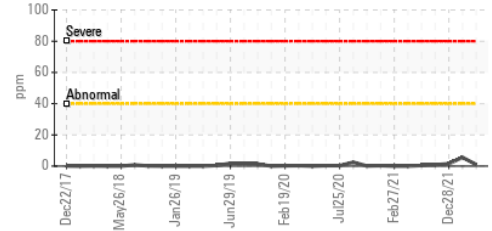
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.6	14.2	14.3

GRAPHS

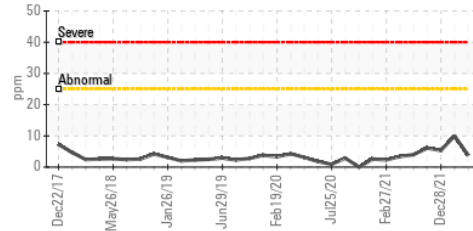
Iron (ppm)



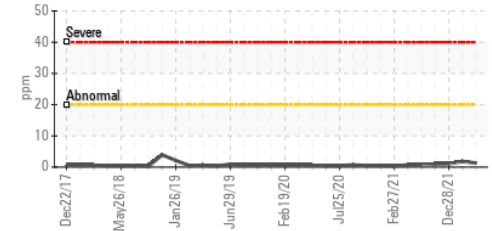
Lead (ppm)



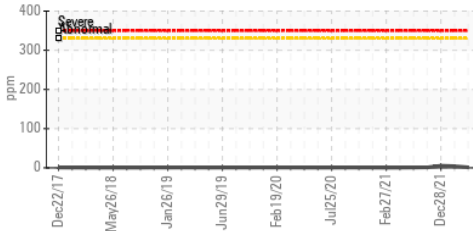
Aluminum (ppm)



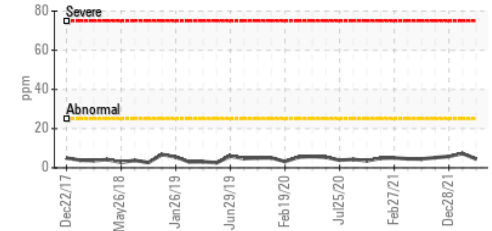
Chromium (ppm)



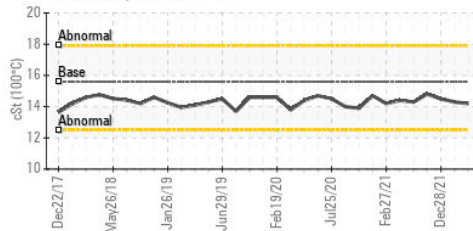
Copper (ppm)



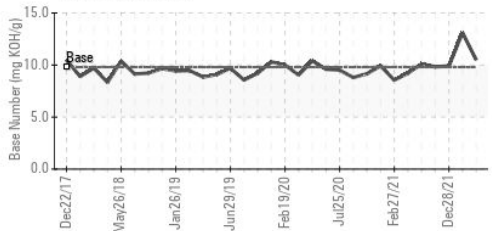
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0072130 **Received** : 14 Oct 2022
Lab Number : 05667168 **Diagnosed** : 17 Oct 2022
Unique Number : 10176738 **Diagnostician** : Jonathan Hester
Test Package : MOB 2

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 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)