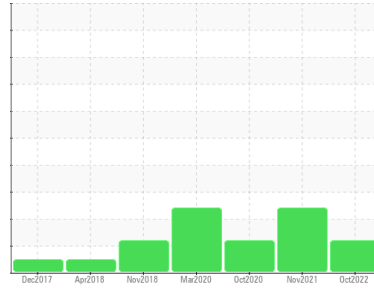


OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
VOLVO L30G L30 (S/N 220339)
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (3 GAL)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

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		PCA0072127	WC0570178	PCA0023195
Sample Date	Client Info		11 Oct 2022	12 Nov 2021	01 Oct 2020
Machine Age	hrs	Client Info	3329	2842	2153
Oil Age	hrs	Client Info	450	900	350
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	SEVERE	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 >80	11	14	5
Chromium	ppm	ASTM D5185m >6	<1	<1	<1
Nickel	ppm	ASTM D5185m >2	0	0	0
Titanium	ppm	ASTM D5185m >2	<1	<1	<1
Silver	ppm	ASTM D5185m >2	<1	0	0
Aluminum	ppm	ASTM D5185m >20	2	2	0
Lead	ppm	ASTM D5185m >95	0	<1	0
Copper	ppm	ASTM D5185m >85	4	14	<1
Tin	ppm	ASTM D5185m >9	<1	<1	<1
Antimony	ppm	ASTM D5185m	---	0	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	0	14
Barium	ppm	ASTM D5185m	0	0	<1
Molybdenum	ppm	ASTM D5185m	56	62	56
Manganese	ppm	ASTM D5185m	1	<1	<1
Magnesium	ppm	ASTM D5185m	923	982	848
Calcium	ppm	ASTM D5185m	1076	1030	979
Phosphorus	ppm	ASTM D5185m	959	1038	930
Zinc	ppm	ASTM D5185m	1221	1216	1108
Sulfur	ppm	ASTM D5185m	3310	2768	2441

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	5	6	2
Sodium	ppm	ASTM D5185m	2	1	3
Potassium	ppm	ASTM D5185m >20	0	0	<1
Fuel	%	ASTM D3524 >4.0	▲ 7.9	◆ 11.8	▲ 6.4

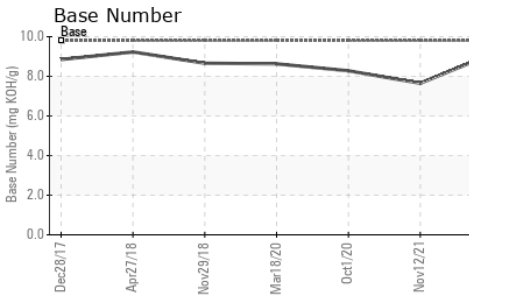
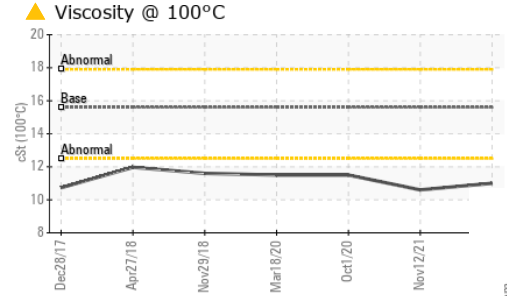
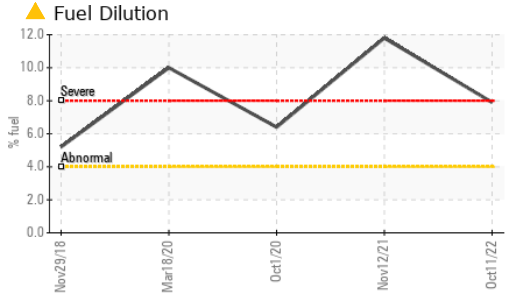
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0.2	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	9.5	9.5	7.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	20.9	20.7	18.5

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.8	19.7	14.5
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	9.13	7.65	8.28

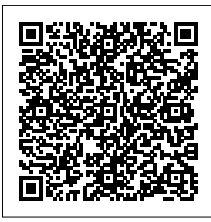
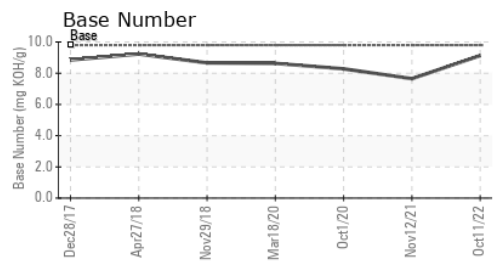
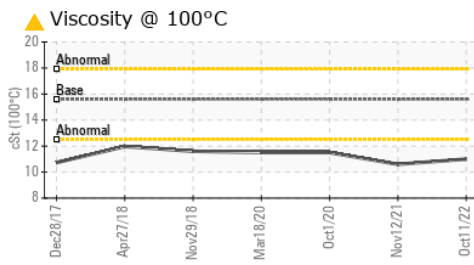
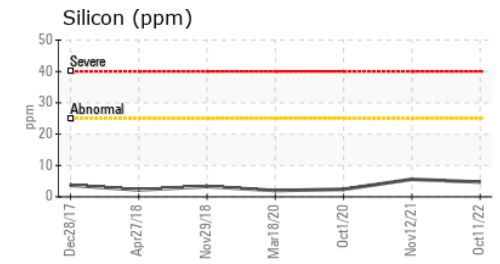
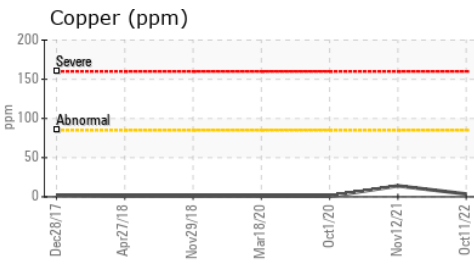
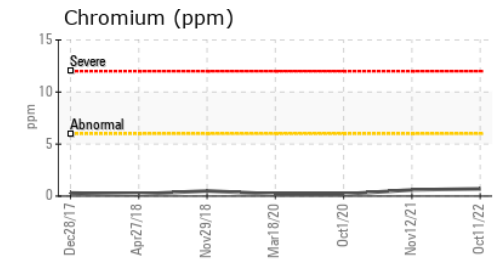
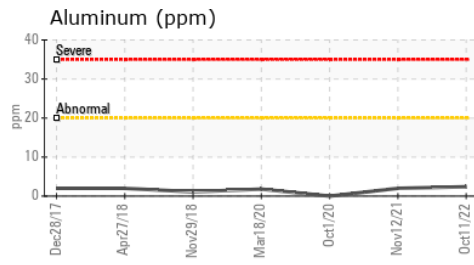
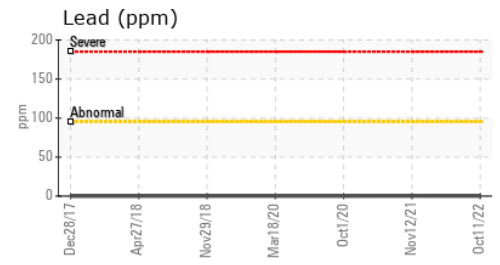
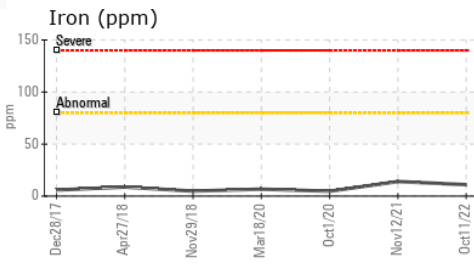
OIL ANALYSIS REPORT



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	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	▲ 11.0	▲ 10.6	▲ 11.5

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0072127 **Received** : 14 Oct 2022
Lab Number : 05667174 **Diagnosed** : 19 Oct 2022
Unique Number : 10176744 **Diagnostician** : Doug Bogart
Test Package : MOB 2 (Additional Tests: PercentFuel)

J F PRICE
 611 PLEASANT ST
 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)