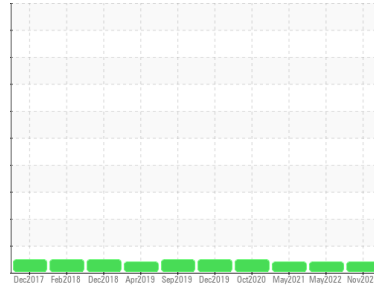


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
VOLVO A25C HT-4 (S/N 5350V70492)
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (7 GAL)

DIAGNOSIS

▲ Recommendation

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 no indication of any contamination in the oil.

▲ Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0109609	PCA0059480	PCA0041178
Sample Date	Client Info		09 Nov 2023	07 May 2022	19 May 2021
Machine Age	hrs	Client Info	19532	18877	18219
Oil Age	hrs	Client Info	655	658	450
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ATTENTION	ATTENTION	ATTENTION

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<1.0	<1.0	0.7
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	19	21	16
Chromium	ppm	ASTM D5185m >20	<1	<1	<1
Nickel	ppm	ASTM D5185m >2	<1	<1	<1
Titanium	ppm	ASTM D5185m	<1	1	<1
Silver	ppm	ASTM D5185m >2	0	0	<1
Aluminum	ppm	ASTM D5185m >25	3	4	4
Lead	ppm	ASTM D5185m >40	4	4	2
Copper	ppm	ASTM D5185m >330	0	<1	2
Tin	ppm	ASTM D5185m >15	<1	<1	<1
Antimony	ppm	ASTM D5185m	---	---	0
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	6	10	15
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	65	62	63
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	979	927	915
Calcium	ppm	ASTM D5185m	1113	1058	1048
Phosphorus	ppm	ASTM D5185m	1094	1026	1009
Zinc	ppm	ASTM D5185m	1308	1206	1206
Sulfur	ppm	ASTM D5185m	3168	2959	2582

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	7	7	6
Sodium	ppm	ASTM D5185m	1	3	2
Potassium	ppm	ASTM D5185m >20	<1	2	<1

INFRA-RED

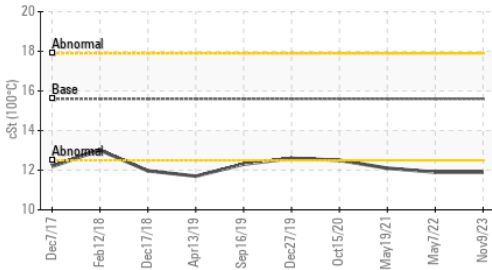
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.3	0.2	0.2
Nitration	Abs/cm	*ASTM D7624 >20	6.9	7.7	7
Sulfation	Abs/.1mm	*ASTM D7415 >30	18.5	18.8	19.1

FLUID DEGRADATION

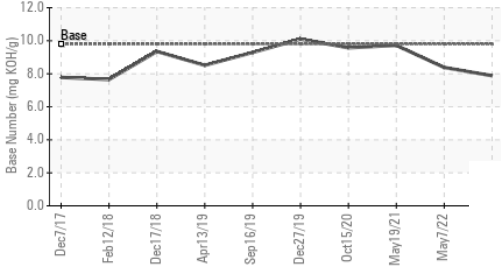
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	14.4	15.2	14.7
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	7.88	8.38	9.72

OIL ANALYSIS REPORT

▲ Viscosity @ 100°C



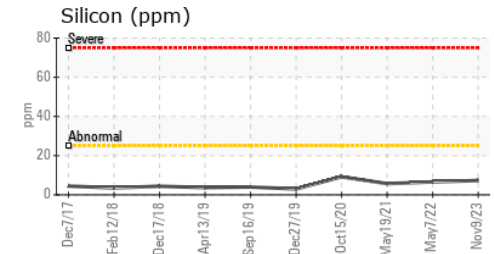
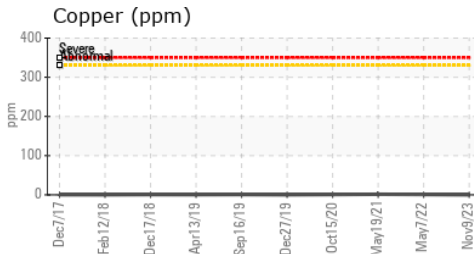
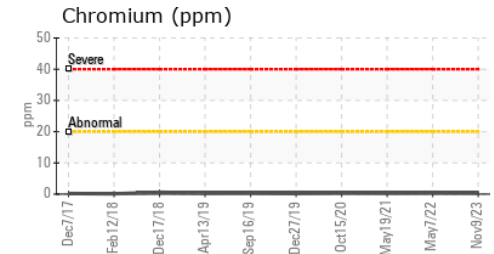
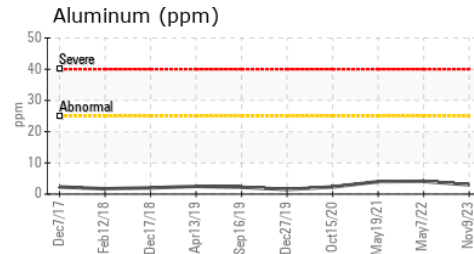
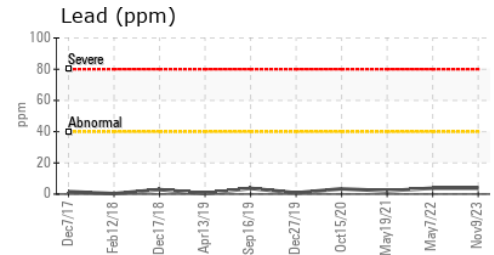
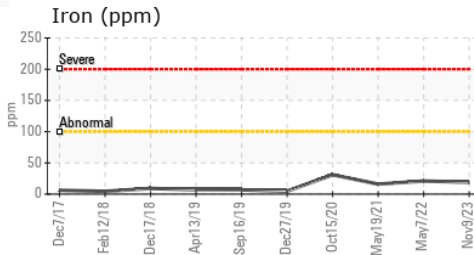
Base Number



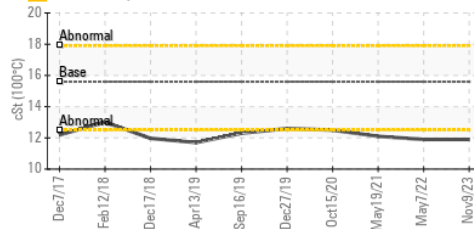
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	▲ 11.9	▲ 11.9	▲ 12.1

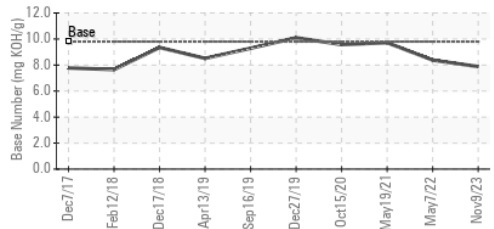
GRAPHS



▲ Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0109609 **Received** : 11 Dec 2023
Lab Number : 06031798 **Diagnosed** : 14 Dec 2023
Unique Number : 10781589 **Diagnostician** : Sean Felton
Test Package : MOB 2

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 611 PLEASANT ST
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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)