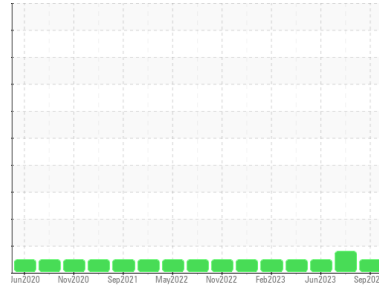


OIL ANALYSIS REPORT

Area
FLEET
 Machine Id
VOLVO 1926727
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (---)

Sample Rating Trend



DIAGNOSIS

Recommendation
 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0102836	PCA0095984	PCA0095984
Sample Date	Client Info		05 Sep 2023	01 Jun 2023	01 Jun 2023
Machine Age	mls	Client Info	331576	310829	310829
Oil Age	mls	Client Info	44182	16373	16373
Oil Changed	Client Info		Changed	Not Changd	Not Changd
Sample Status			NORMAL	ABNORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	17	▲ 107	10
Chromium	ppm	ASTM D5185m >20	<1	2	<1
Nickel	ppm	ASTM D5185m >2	<1	1	<1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >25	1	10	0
Lead	ppm	ASTM D5185m >40	0	<1	<1
Copper	ppm	ASTM D5185m >330	6	6	3
Tin	ppm	ASTM D5185m >15	<1	2	<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	3	4
Barium	ppm	ASTM D5185m 0	0	<1	0
Molybdenum	ppm	ASTM D5185m 50	56	66	58
Manganese	ppm	ASTM D5185m 0	<1	1	<1
Magnesium	ppm	ASTM D5185m 950	965	1043	981
Calcium	ppm	ASTM D5185m 1050	1070	1230	1061
Phosphorus	ppm	ASTM D5185m 995	923	1140	1038
Zinc	ppm	ASTM D5185m 1180	1209	1387	1311
Sulfur	ppm	ASTM D5185m 2600	3121	3128	3722

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	4	11	5
Sodium	ppm	ASTM D5185m	10	44	5
Potassium	ppm	ASTM D5185m >20	3	2	2

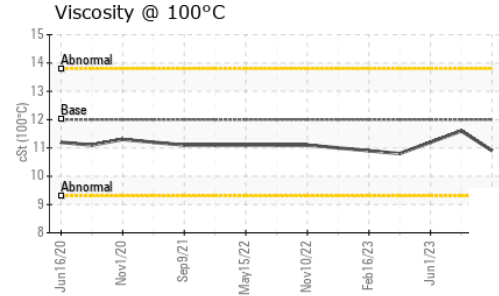
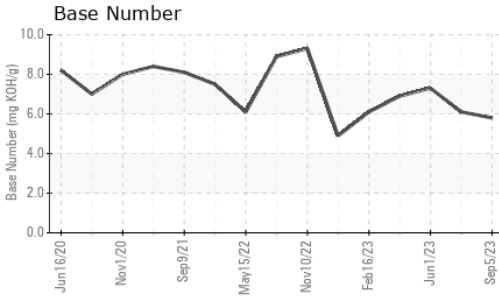
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.4	1.9	0.3
Nitration	Abs/cm	*ASTM D7624 >20	9.7	13.3	7.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.2	26.2	20.0

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.3	24.1	17.0
Base Number (BN)	mg KOH/g	ASTM D2896	5.8	6.1	7.3

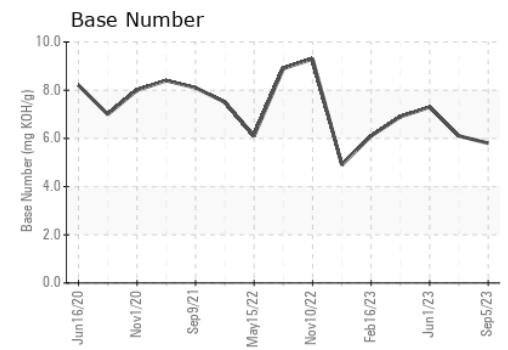
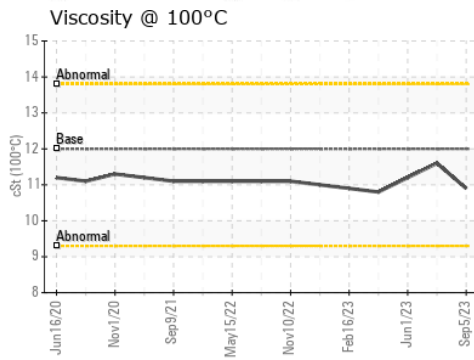
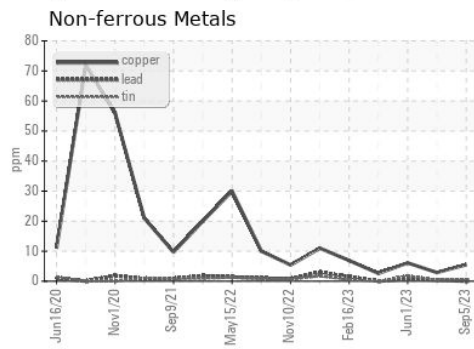
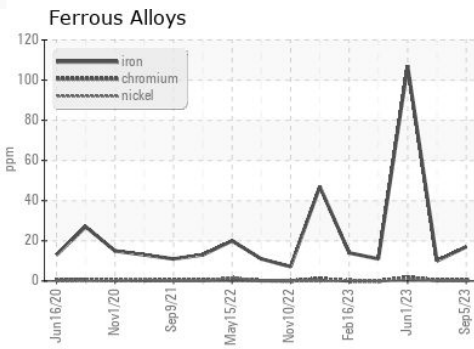
OIL ANALYSIS REPORT



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	10.9	11.6	11.2

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0102836 **Received** : 12 Sep 2023
Lab Number : **05948824** **Diagnosed** : 14 Sep 2023
Unique Number : 10644783 **Diagnostician** : Wes Davis
Test Package : FLEET

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 ACCOMAC, VA
 US 23301
 Contact: PEGGY KIMES
 peggy.kimes@perdue.com
 T: (757)787-5304
 F: (757)787-5208

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)