

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Area
FLEET
 Machine Id
VOLVO VNL740 Sleeper 2227104
 Component
Main Diesel Engine
 Fluid
PETRO CANADA 10W30 (36 QTS)


DIAGNOSIS
Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components.

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		PCA0112285	---	---
Sample Date	Client Info		19 Dec 2023	---	---
Machine Age	mls	Client Info	19541	---	---
Oil Age	mls	Client Info	19541	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	28	---
Chromium	ppm	ASTM D5185m	>20	<1	---
Nickel	ppm	ASTM D5185m	>2	2	---
Titanium	ppm	ASTM D5185m		<1	---
Silver	ppm	ASTM D5185m	>2	17	---
Aluminum	ppm	ASTM D5185m	>25	28	---
Lead	ppm	ASTM D5185m	>40	<1	---
Copper	ppm	ASTM D5185m	>330	118	---
Tin	ppm	ASTM D5185m	>15	4	---
Vanadium	ppm	ASTM D5185m		<1	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		187	---
Barium	ppm	ASTM D5185m		0	---
Molybdenum	ppm	ASTM D5185m		107	---
Manganese	ppm	ASTM D5185m		4	---
Magnesium	ppm	ASTM D5185m		690	---
Calcium	ppm	ASTM D5185m		1375	---
Phosphorus	ppm	ASTM D5185m		711	---
Zinc	ppm	ASTM D5185m		873	---
Sulfur	ppm	ASTM D5185m		2337	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	▲ 45	---
Sodium	ppm	ASTM D5185m		1	---
Potassium	ppm	ASTM D5185m	>20	74	---

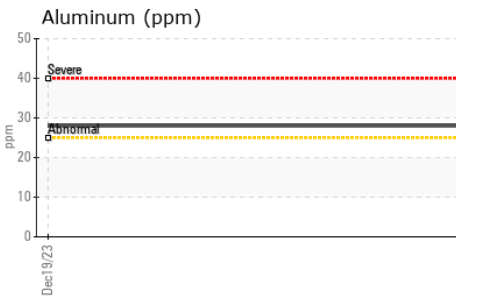
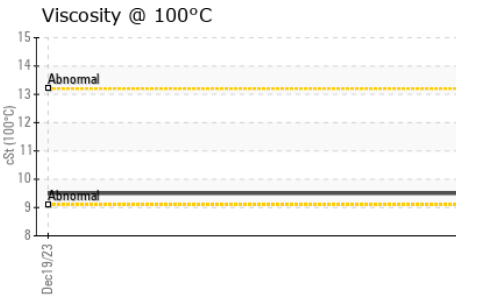
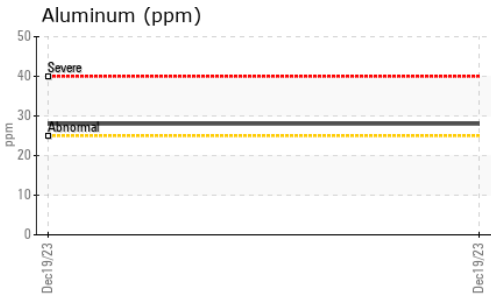
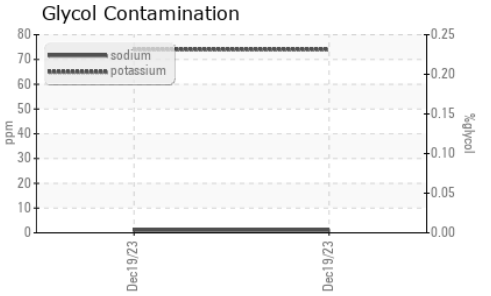
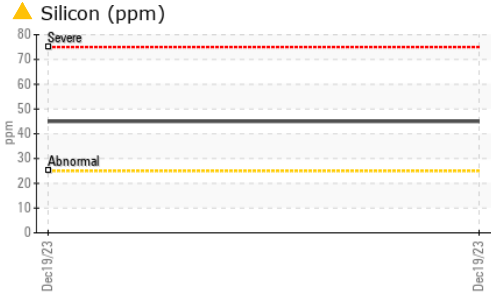
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	9.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.5	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.7	---

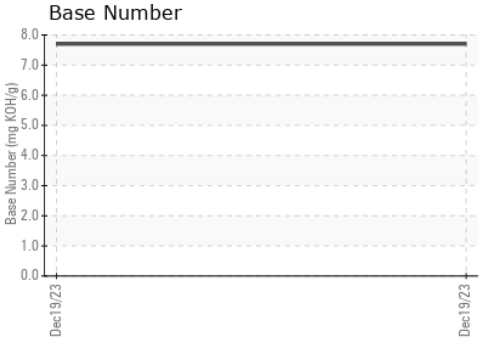
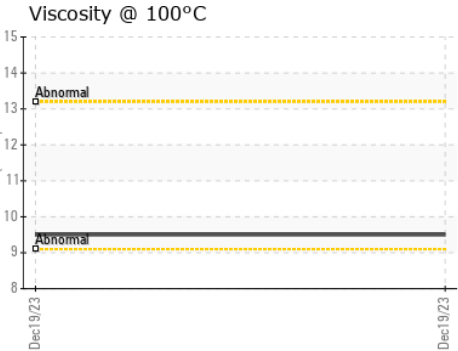
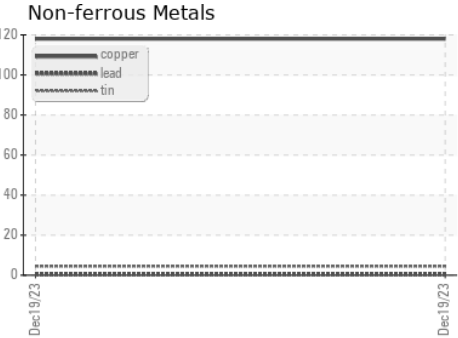
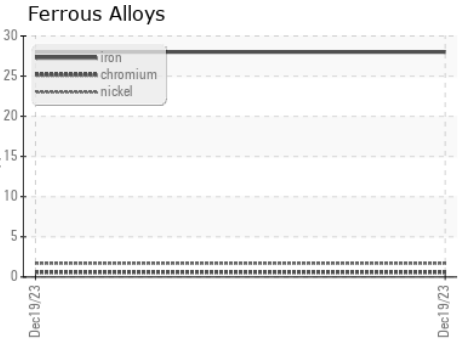
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VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	9.5	---	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0112285 **Recieved** : 11 Jan 2024
Lab Number : 06057862 **Diagnosed** : 12 Jan 2024
Unique Number : 10829244 **Diagnostician** : Don Baldrige
Test Package : FLEET

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 DILLON, SC
 US 29536
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Certificate L2367
 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)