



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
[64688]
 Machine Id
VOLVO VNL 4652
 Component
Diesel Engine
 Fluid
{not provided} (--- GAL)



DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. No other corrective action is recommended at this time. Please specify the brand, type, and viscosity of the oil on your next sample.

▲ Wear

Nickel ppm levels are abnormal. Exhaust valve wear is indicated.

Contamination

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. Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0853702	---	---
Sample Date	Client Info		28 Dec 2023	---	---
Machine Age	kms	Client Info	110077	---	---
Oil Age	kms	Client Info	110077	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	125	---
Chromium	ppm	ASTM D5185(m)	>20	2	---
Nickel	ppm	ASTM D5185(m)	>2	▲ 8	---
Titanium	ppm	ASTM D5185(m)		0	---
Silver	ppm	ASTM D5185(m)	>2	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	24	---
Lead	ppm	ASTM D5185(m)	>40	8	---
Copper	ppm	ASTM D5185(m)	>330	130	---
Tin	ppm	ASTM D5185(m)	>15	7	---
Antimony	ppm	ASTM D5185(m)		0	---
Vanadium	ppm	ASTM D5185(m)		0	---
Beryllium	ppm	ASTM D5185(m)		0	---
Cadmium	ppm	ASTM D5185(m)		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		17	---
Barium	ppm	ASTM D5185(m)		<1	---
Molybdenum	ppm	ASTM D5185(m)		103	---
Manganese	ppm	ASTM D5185(m)		6	---
Magnesium	ppm	ASTM D5185(m)		666	---
Calcium	ppm	ASTM D5185(m)		1572	---
Phosphorus	ppm	ASTM D5185(m)		682	---
Zinc	ppm	ASTM D5185(m)		791	---
Sulfur	ppm	ASTM D5185(m)		1843	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

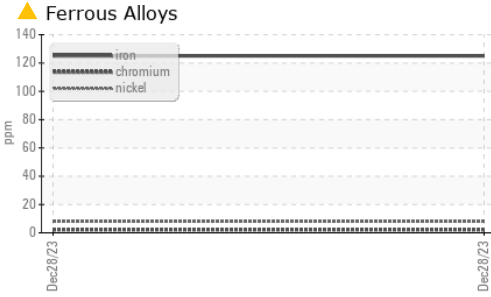
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	37	---
Sodium	ppm	ASTM D5185(m)		5	---
Potassium	ppm	ASTM D5185(m)	>20	44	---
Fuel	%	ASTM D7593*	>6.0	1	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.8	---
Nitration	Abs/cm	ASTM D7624*	>20	14.3	---
Sulfation	Abs./1mm	ASTM D7415*	>30	27.4	---



OIL ANALYSIS REPORT

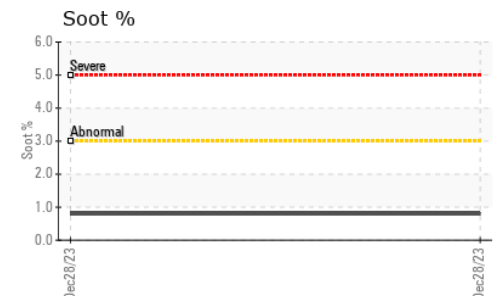
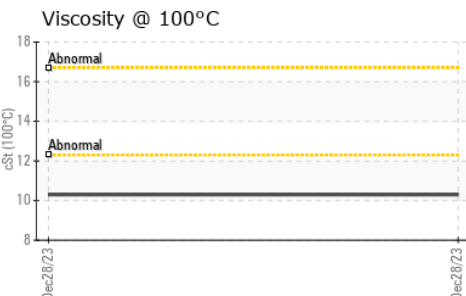
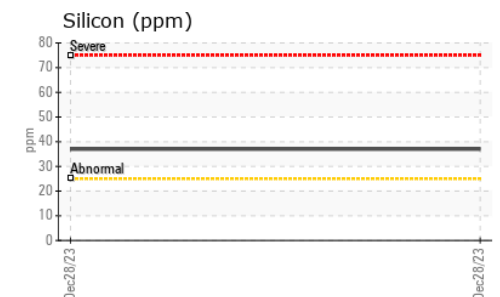
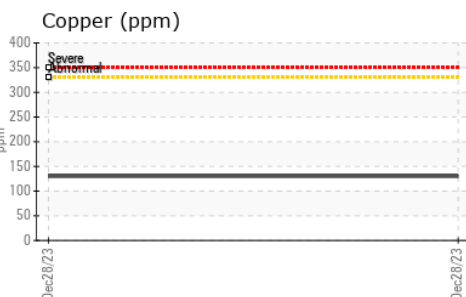
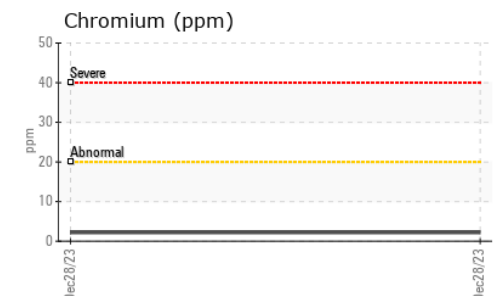
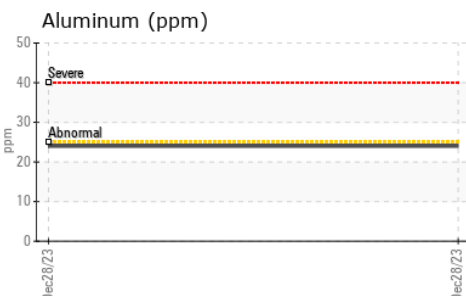
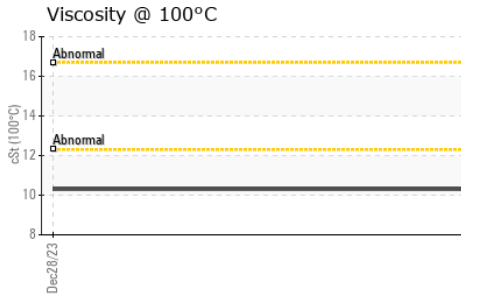
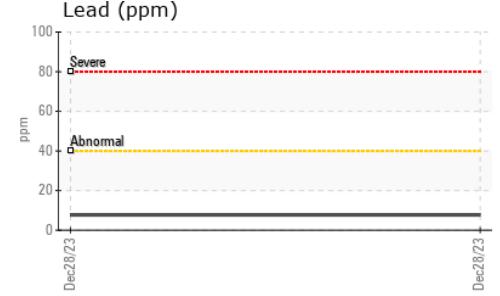
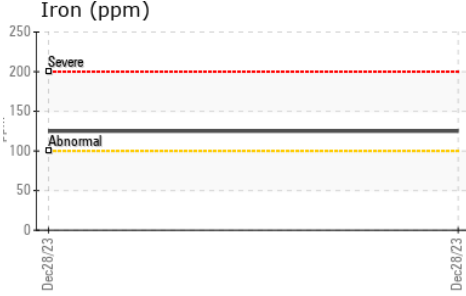
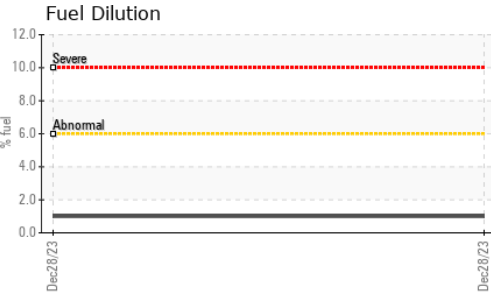


FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	30.3	---

VISUAL	method	limit/base	current	history1	history2
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 D7279(m)	10.3	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 PERFORMANCE EQUIPMENT - VISION TRUCK
Sample No. : WC0853702 **Recieved** : 04 Jan 2024 415 EVANS AVENUE
Lab Number : 02606455 **Diagnosed** : 05 Jan 2024 ETOBICOKE, ON
Unique Number : 5707541 **Diagnostician** : Kevin Marson CA M8W 0B3
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel) Contact: Service

To discuss this sample report, contact Customer Service at 1-800-268-2131. etobservice@visiontruckgroup.com
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T:
 Validity of results and interpretation are based on the sample and information as supplied. F: