



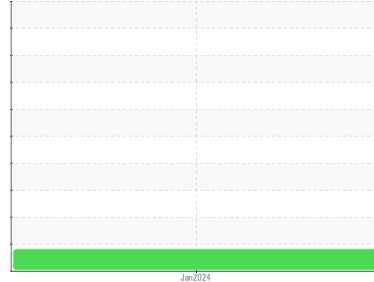
OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Area
[65102]
Machine Id
VOLVO VNL 4416

Component
Diesel Engine
Fluid
PETRO CANADA DURON SAE 10W30 (--- GAL)



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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		WC0895327	---	---
Sample Date	Client Info		11 Jan 2024	---	---
Machine Age	kms	Client Info	762513	---	---
Oil Age	kms	Client Info	0	---	---
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
PQ	ASTM D8184*		0	---	---
Iron	ppm	ASTM D5185(m) >100	▲ 115	---	---
Chromium	ppm	ASTM D5185(m) >20	2	---	---
Nickel	ppm	ASTM D5185(m) >2	<1	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m) >2	<1	---	---
Aluminum	ppm	ASTM D5185(m) >25	16	---	---
Lead	ppm	ASTM D5185(m) >40	2	---	---
Copper	ppm	ASTM D5185(m) >330	14	---	---
Tin	ppm	ASTM D5185(m) >15	1	---	---
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) 1	1	---	---
Barium	ppm	ASTM D5185(m) 1	<1	---	---
Molybdenum	ppm	ASTM D5185(m) 1	59	---	---
Manganese	ppm	ASTM D5185(m) 1	1	---	---
Magnesium	ppm	ASTM D5185(m) 10	913	---	---
Calcium	ppm	ASTM D5185(m) 2942	1186	---	---
Phosphorus	ppm	ASTM D5185(m) 1102	968	---	---
Zinc	ppm	ASTM D5185(m) 1351	1154	---	---
Sulfur	ppm	ASTM D5185(m) 3903	2090	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	11	---	---
Sodium	ppm	ASTM D5185(m)	4	---	---
Potassium	ppm	ASTM D5185(m) >20	3	---	---

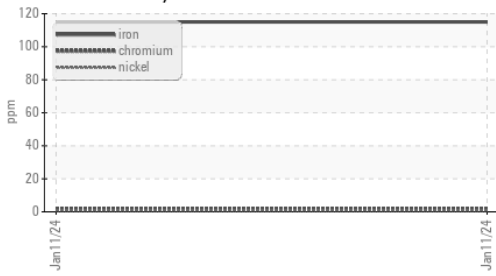
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0.9	---	---
Nitration	Abs/cm	ASTM D7624* >20	12.6	---	---
Sulfation	Abs./1mm	ASTM D7415* >30	25.7	---	---



OIL ANALYSIS REPORT

▲ Ferrous Alloys



FLUID DEGRADATION

Method	Limit/Base	Current	History1	History2
Oxidation	Abs.:1mm ASTM D7414*	>25	23.4	---

VISUAL

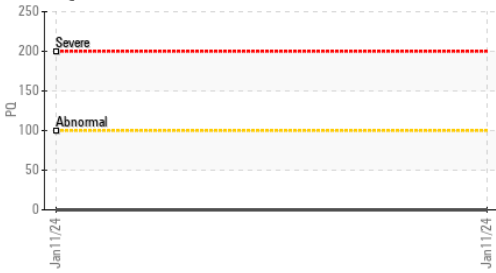
Method	Limit/Base	Current	History1	History2
Emulsified Water	scalar Visual*	>0.2	NEG	---
Free Water	scalar Visual*		NEG	---

FLUID PROPERTIES

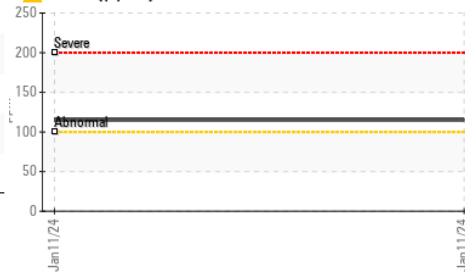
Method	Limit/Base	Current	History1	History2
Visc @ 100°C	cSt ASTM D7279(m)	11.4	11.4	---

GRAPHS

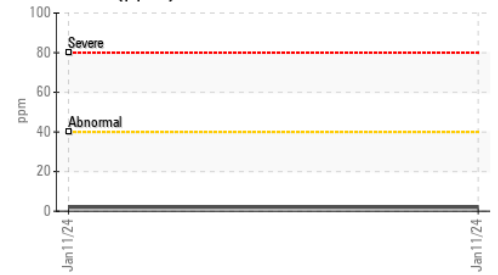
PQ



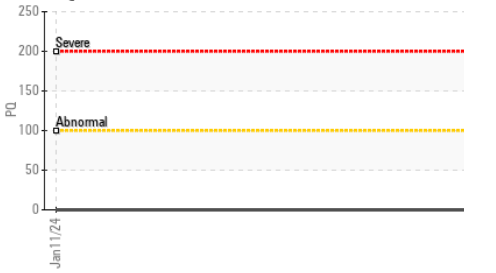
▲ Iron (ppm)



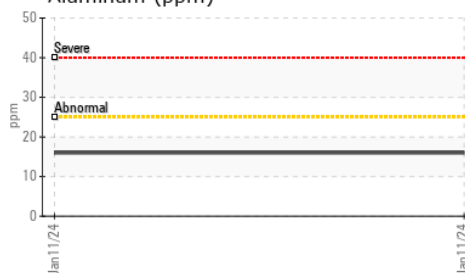
Lead (ppm)



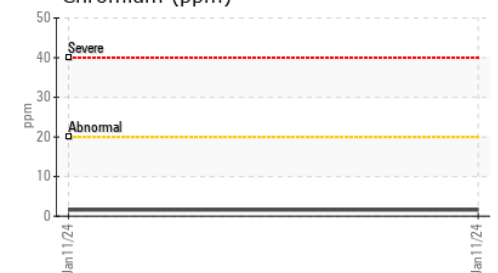
PQ



Aluminum (ppm)



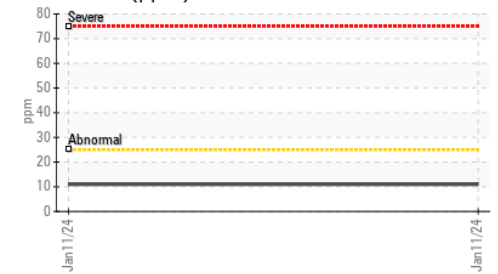
Chromium (ppm)



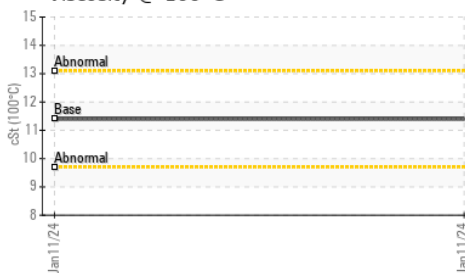
Copper (ppm)



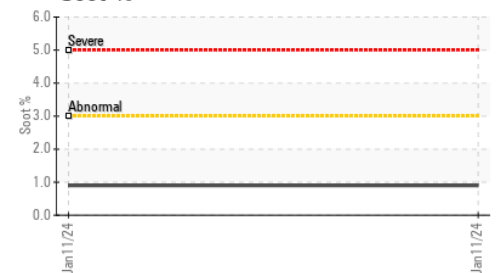
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 PERFORMANCE EQUIPMENT - VISION TRUCK
Sample No. : WC0895327 **Received** : 15 Jan 2024
Lab Number : 02608681 **Diagnosed** : 15 Jan 2024
Unique Number : 5709767 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: PQ)

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.

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