



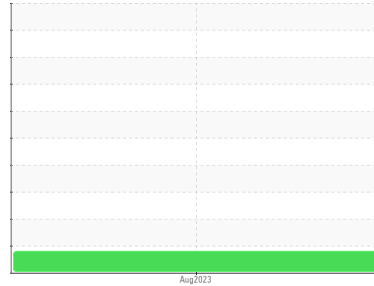
OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
[61085]
 Machine Id
VOVO 4465
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SAE 10W30 (--- GAL)



DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. 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		WC0831175	---	---
Sample Date	Client Info		11 Aug 2023	---	---
Machine Age	mths	Client Info	48	---	---
Oil Age	mths	Client Info	13	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	---	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		9	---	---
Iron	ppm	ASTM D5185(m) >100	▲ 258	---	---
Chromium	ppm	ASTM D5185(m) >20	3	---	---
Nickel	ppm	ASTM D5185(m) >4	6	---	---
Titanium	ppm	ASTM D5185(m)	<1	---	---
Silver	ppm	ASTM D5185(m) >3	<1	---	---
Aluminum	ppm	ASTM D5185(m) >20	14	---	---
Lead	ppm	ASTM D5185(m) >40	3	---	---
Copper	ppm	ASTM D5185(m) >330	36	---	---
Tin	ppm	ASTM D5185(m) >15	2	---	---
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	2	---	---
Molybdenum	ppm	ASTM D5185(m) 1	8	---	---
Manganese	ppm	ASTM D5185(m) 1	4	---	---
Magnesium	ppm	ASTM D5185(m) 10	88	---	---
Calcium	ppm	ASTM D5185(m) 2942	2429	---	---
Phosphorus	ppm	ASTM D5185(m) 1102	944	---	---
Zinc	ppm	ASTM D5185(m) 1351	1246	---	---
Sulfur	ppm	ASTM D5185(m) 3903	2660	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	21	---	---
Sodium	ppm	ASTM D5185(m)	28	---	---
Potassium	ppm	ASTM D5185(m) >20	13	---	---
Glycol	%	ASTM D7922*	0.0	---	---

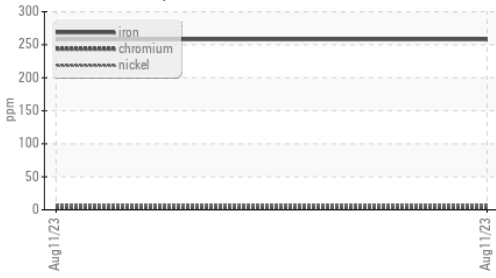
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	1.3	---	---
Nitration	Abs/cm	ASTM D7624* >20	15.7	---	---
Sulfation	Abs/.1mm	ASTM D7415* >30	35.9	---	---



OIL ANALYSIS REPORT

▲ Ferrous Alloys



FLUID DEGRADATION

Method	Limit/Base	Current	History1	History2
Abs.:1mm	ASTM D7414*	29.8	---	---

VISUAL

Method	Limit/Base	Current	History1	History2
scalar	Visual*	NEG	---	---

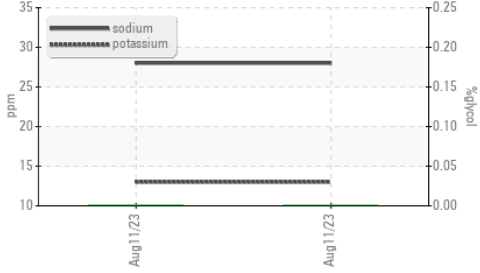
Method	Limit/Base	Current	History1	History2
scalar	Visual*	NEG	---	---

FLUID PROPERTIES

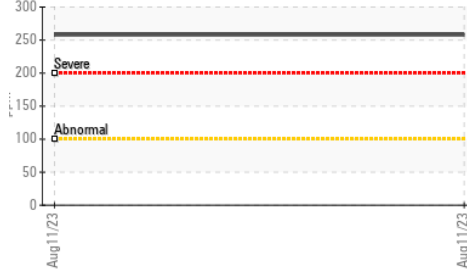
Method	Limit/Base	Current	History1	History2
cSt	ASTM D7279(m)	12.4	---	---

GRAPHS

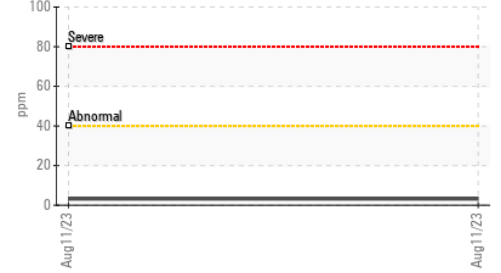
Glycol Contamination



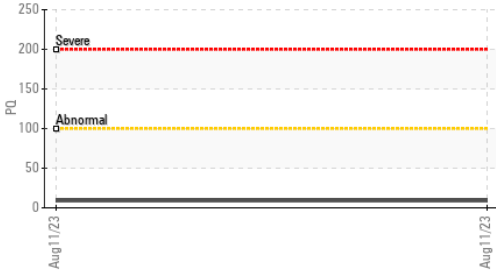
▲ Iron (ppm)



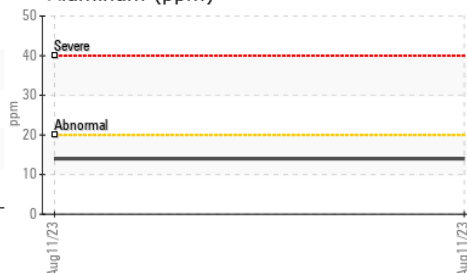
Lead (ppm)



PQ



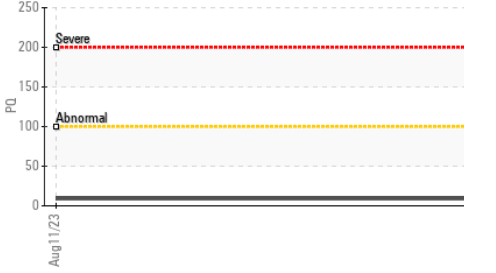
Aluminum (ppm)



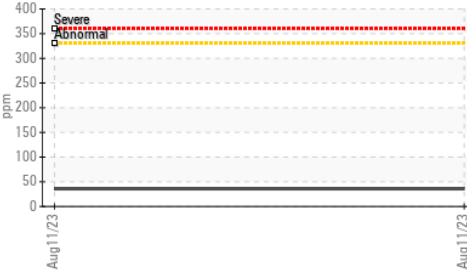
Chromium (ppm)



PQ



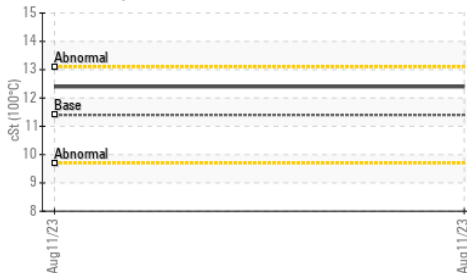
Copper (ppm)



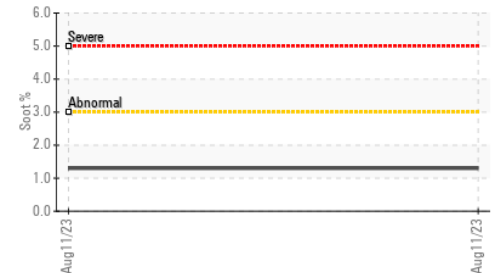
Silicon (ppm)



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. : WC0831175 **Received** : 14 Aug 2023
Lab Number : 02575651 **Diagnosed** : 14 Aug 2023
Unique Number : 5620702 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, 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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