



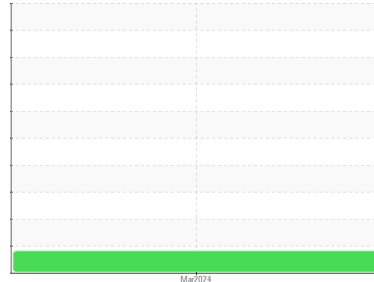
OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
[66790]
 Machine Id
VOLVO VNL740 4517
 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

Light fuel dilution occurring. No other contaminants were detected 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	WC0909040	---	---
Sample Date	Client Info	15 Mar 2024	---	---
Machine Age	kms Client Info	493177	---	---
Oil Age	kms Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	0	---	---
Iron	ppm ASTM D5185(m) >100	▲ 130	---	---
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	11	---	---
Lead	ppm ASTM D5185(m) >40	2	---	---
Copper	ppm ASTM D5185(m) >330	18	---	---
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	<1	---	---
Molybdenum	ppm ASTM D5185(m) 1	63	---	---
Manganese	ppm ASTM D5185(m) 1	1	---	---
Magnesium	ppm ASTM D5185(m) 10	990	---	---
Calcium	ppm ASTM D5185(m) 2942	1119	---	---
Phosphorus	ppm ASTM D5185(m) 1102	1047	---	---
Zinc	ppm ASTM D5185(m) 1351	1228	---	---
Sulfur	ppm ASTM D5185(m) 3903	2216	---	---
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	6	---	---
Fuel	% ASTM D7593* >6.0	1.4	---	---
Glycol	% ASTM D7922*	0.0	---	---

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	1.4	---	---
Nitration	Abs/cm ASTM D7624* >20	14.5	---	---
Sulfation	Abs./1mm ASTM D7415* >30	29.2	---	---



OIL ANALYSIS REPORT

▲ Ferrous Alloys



FLUID DEGRADATION

Method	Limit/Base	Current	History1	History2
Oxidation Abs/1mm	ASTM D7414*	27.8	---	---

VISUAL

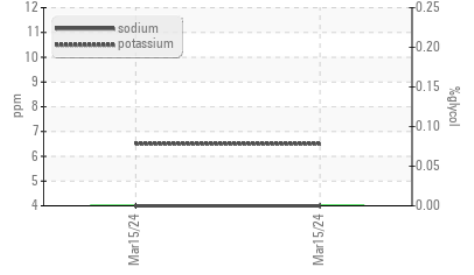
Method	Limit/Base	Current	History1	History2
Emulsified Water scalar	Visual*	NEG	---	---
Free Water scalar	Visual*	NEG	---	---

FLUID PROPERTIES

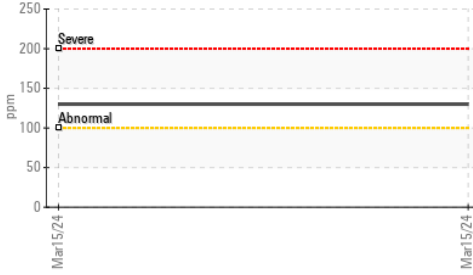
Method	Limit/Base	Current	History1	History2
Visc @ 100°C cSt	ASTM D7279(m)	11.3	---	---

GRAPHS

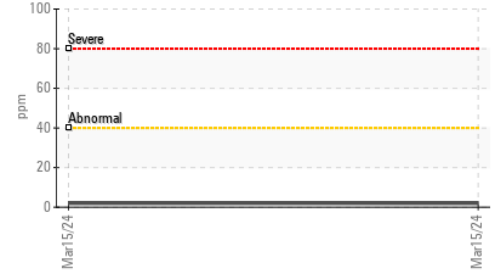
Glycol Contamination



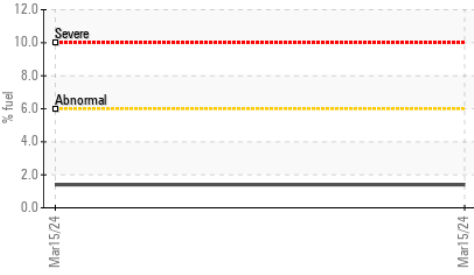
▲ Iron (ppm)



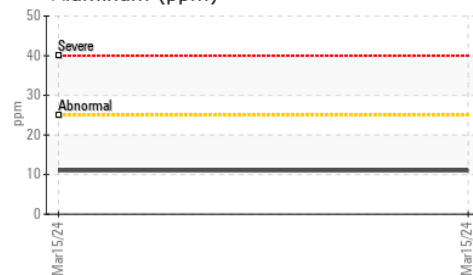
Lead (ppm)



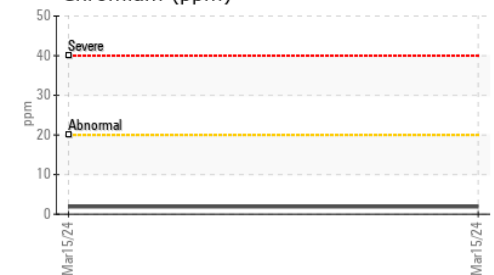
Fuel Dilution



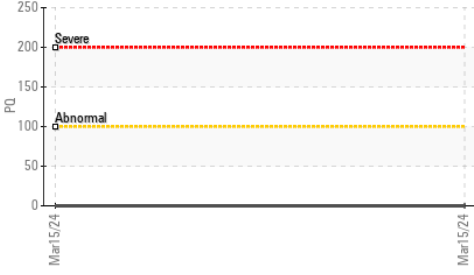
Aluminum (ppm)



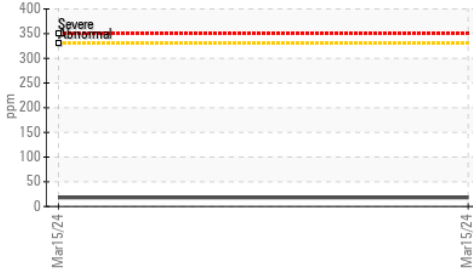
Chromium (ppm)



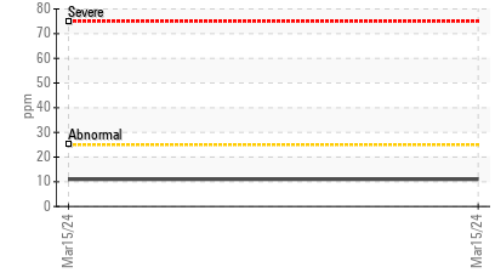
PQ



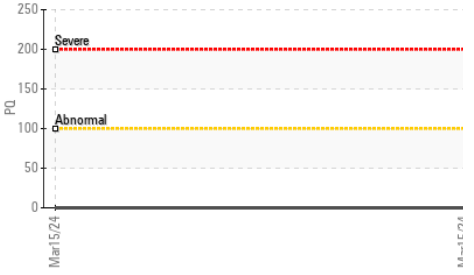
Copper (ppm)



Silicon (ppm)



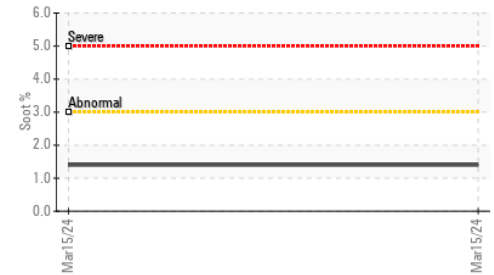
PQ



Viscosity @ 100°C



Soot %



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **PERFORMANCE EQUIPMENT - VISION TRUCK**
Sample No. : WC0909040 **Received** : 18 Mar 2024 415 EVANS AVENUE
Lab Number : **02622552** **Tested** : 19 Mar 2024 ETOBICOKE, ON
Unique Number : 5747671 **Diagnosed** : 19 Mar 2024 - Kevin Marson CA M8W 0B3
Test Package : MOB 1 (Additional Tests: FUELDILUTION, Glycol, PercentFuel, PQ) **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:**