



OIL ANALYSIS REPORT

Sample Rating Trend

WATER

Area
[62524]
Machine Id
VOLVO VNL740 4473

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



DIAGNOSIS

▲ Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

▲ Wear

Aluminum ppm levels are abnormal. Piston wear is indicated.

▲ Contamination

There is a trace of moisture present in the oil. There is a moderate concentration of dirt present in the oil. Test for glycol is negative. High amount of ingressed dirt has caused abrasive wear to the component.

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		WC0853703	---	---
Sample Date	Client Info		07 Oct 2023	---	---
Machine Age	kms	Client Info	416119	---	---
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	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	52	---
Chromium	ppm	ASTM D5185(m)	>20	1	---
Nickel	ppm	ASTM D5185(m)	>2	<1	---
Titanium	ppm	ASTM D5185(m)		0	---
Silver	ppm	ASTM D5185(m)	>2	2	---
Aluminum	ppm	ASTM D5185(m)	>25	▲ 28	---
Lead	ppm	ASTM D5185(m)	>40	2	---
Copper	ppm	ASTM D5185(m)	>330	57	---
Tin	ppm	ASTM D5185(m)	>15	4	---
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)	2	15	---
Barium	ppm	ASTM D5185(m)	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	50	97	---
Manganese	ppm	ASTM D5185(m)	0	2	---
Magnesium	ppm	ASTM D5185(m)	950	765	---
Calcium	ppm	ASTM D5185(m)	1050	1489	---
Phosphorus	ppm	ASTM D5185(m)	995	854	---
Zinc	ppm	ASTM D5185(m)	1180	1042	---
Sulfur	ppm	ASTM D5185(m)	2600	1978	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

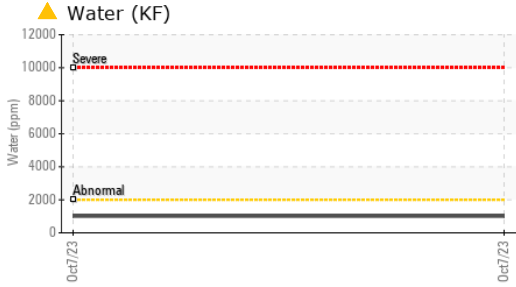
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	▲ 28	---
Sodium	ppm	ASTM D5185(m)		5	---
Potassium	ppm	ASTM D5185(m)	>20	70	---
Water	%	ASTM D6304*	>0.2	▲ 0.101	---
ppm Water	ppm	ASTM D6304*	>2000	▲ 1010.0	---
Glycol	%	ASTM D7922*		0.0	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.3	---
Nitration	Abs/cm	ASTM D7624*	>20	13.2	---
Sulfation	Abs./1mm	ASTM D7415*	>30	27.2	---



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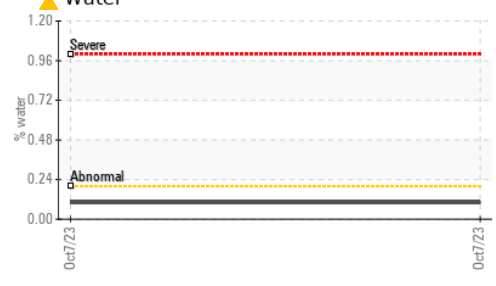
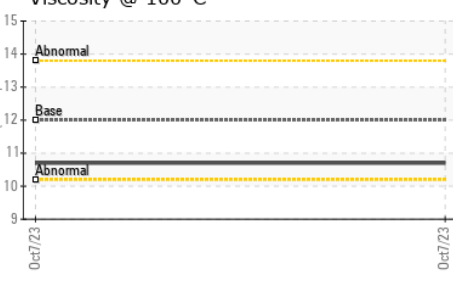
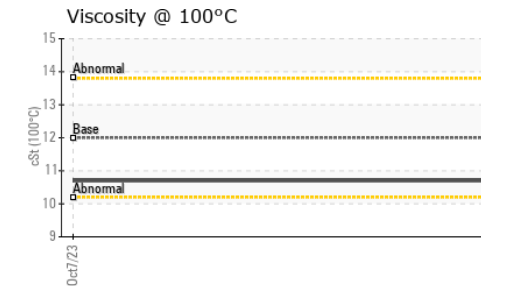
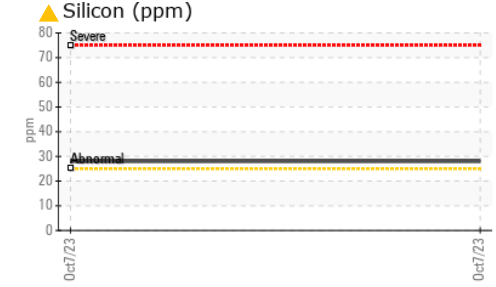
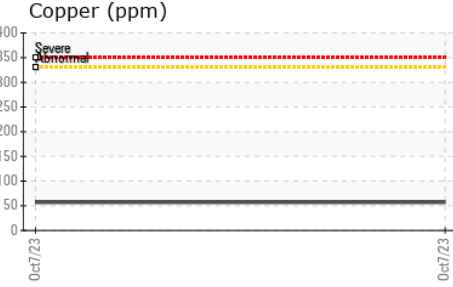
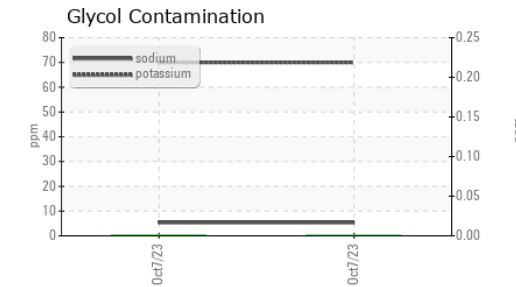
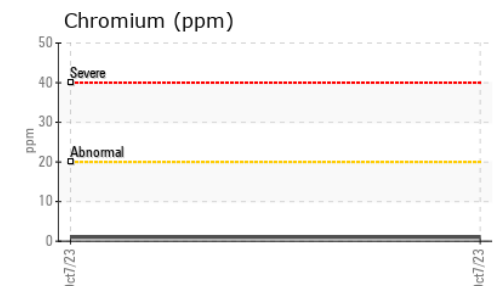
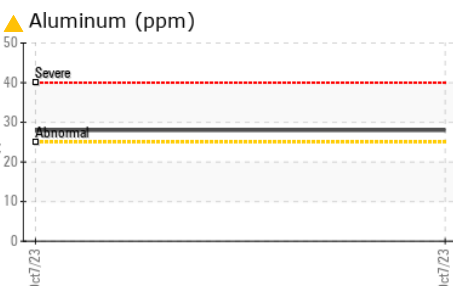
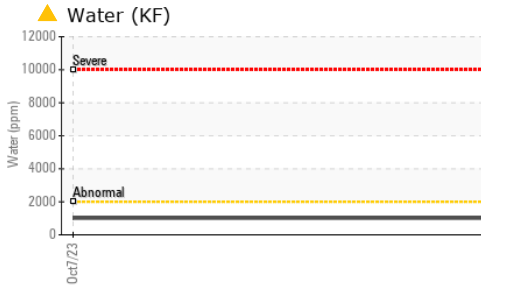
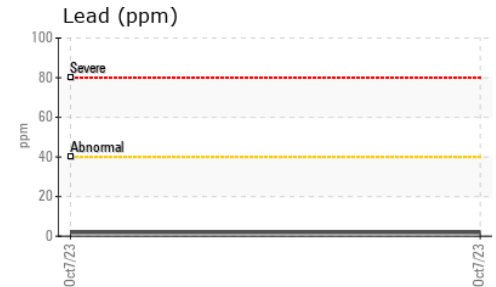
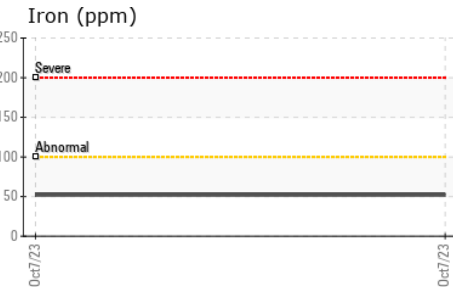
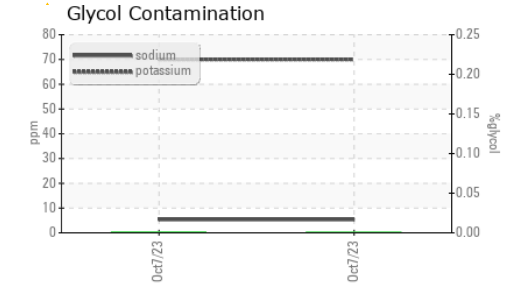


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	28.5	---	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	▲ .2%	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	10.7	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 PERFORMANCE EQUIPMENT - VISION TRUCK
Sample No. : WC0853703 **Received** : 12 Oct 2023 **415 EVANS AVENUE**
Lab Number : 02588522 **Diagnosed** : 13 Oct 2023 **ETOBICOKE, ON**
Unique Number : 5657588 **Diagnostician** : Kevin Marson **CA M8W 0B3**
Test Package : MOB 1 (Additional Tests: Glycol, KF) **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:**