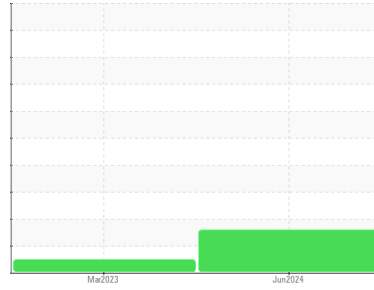




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area

[71396]

Machine Id

SUMMERSIDE (S/N L190699866)

Component

Diesel Engine

Fluid

VALVOLINE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is a trace of moisture present in the oil. Test for glycol is negative.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	CU0021695	CU0019888	---
Sample Date	Client Info	11 Jun 2024	02 Mar 2023	---
Machine Age	hrs	98	74	---
Oil Age	hrs	0	0	---
Oil Changed	Client Info	Changed	Changed	---
Sample Status		MARGINAL	NORMAL	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	3	7	---
Chromium	ppm ASTM D5185(m) >20	0	0	---
Nickel	ppm ASTM D5185(m) >4	0	<1	---
Titanium	ppm ASTM D5185(m)	0	<1	---
Silver	ppm ASTM D5185(m) >3	0	0	---
Aluminum	ppm ASTM D5185(m) >20	<1	2	---
Lead	ppm ASTM D5185(m) >40	0	2	---
Copper	ppm ASTM D5185(m) >330	4	109	---
Tin	ppm ASTM D5185(m) >15	0	<1	---
Antimony	ppm ASTM D5185(m)	0	<1	---
Vanadium	ppm ASTM D5185(m)	0	0	---
Beryllium	ppm ASTM D5185(m)	0	0	---
Cadmium	ppm ASTM D5185(m)	0	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 39	41	42	---
Barium	ppm ASTM D5185(m) 1	<1	<1	---
Molybdenum	ppm ASTM D5185(m) 49	44	49	---
Manganese	ppm ASTM D5185(m) 1	<1	<1	---
Magnesium	ppm ASTM D5185(m) 616	759	840	---
Calcium	ppm ASTM D5185(m) 1554	1136	1132	---
Phosphorus	ppm ASTM D5185(m) 899	680	855	---
Zinc	ppm ASTM D5185(m) 1069	819	914	---
Sulfur	ppm ASTM D5185(m) 2624	1902	2187	---
Lithium	ppm ASTM D5185(m)	<1	<1	---

CONTAMINANTS

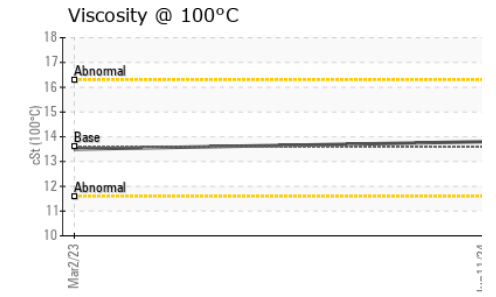
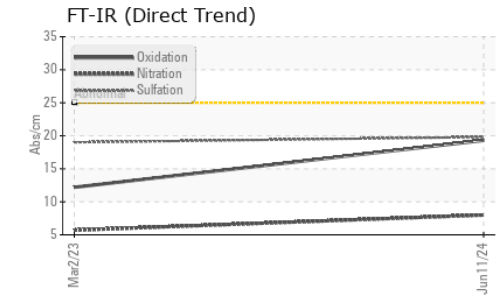
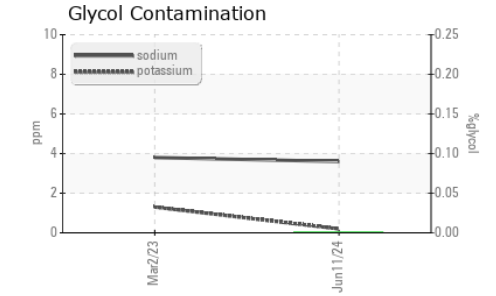
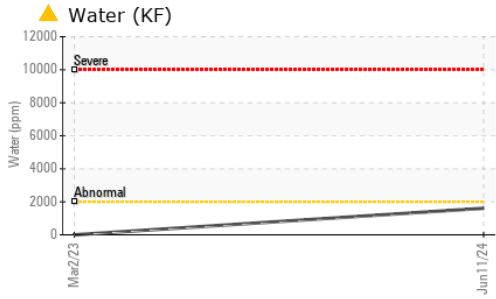
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	4	6	---
Sodium	ppm ASTM D5185(m)	4	4	---
Potassium	ppm ASTM D5185(m) >20	<1	1	---
Water	% ASTM D6304* >0.2	▲ 0.160	---	---
ppm Water	ppm ASTM D6304* >2000	▲ 1609	---	---
Glycol	% ASTM D7922*	0.0	NEG	---

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	0	0	---
Nitration	Abs/cm ASTM D7624* >20	8.0	5.7	---
Sulfation	Abs./1mm ASTM D7415* >30	19.8	19.0	---



OIL ANALYSIS REPORT

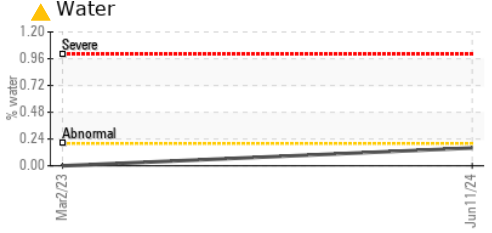
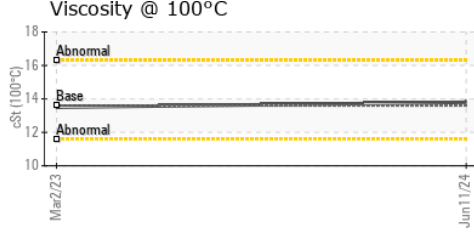
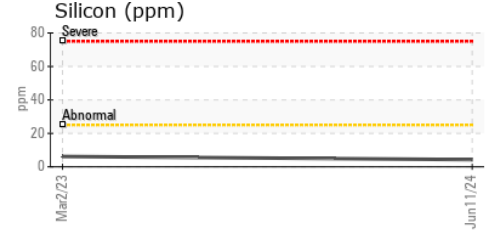
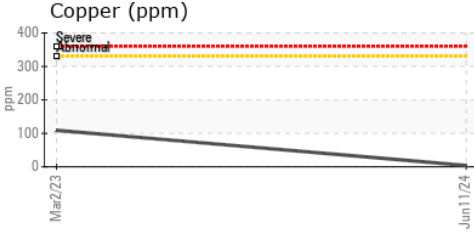
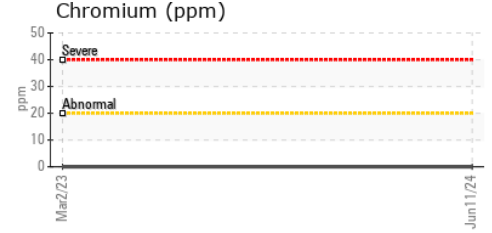
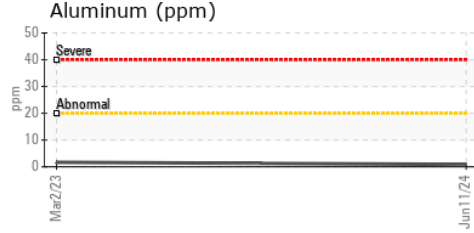
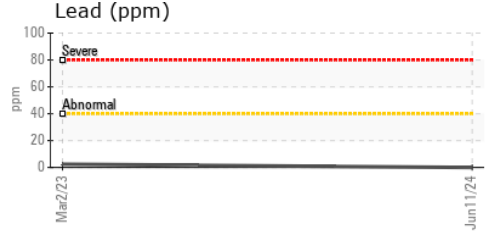
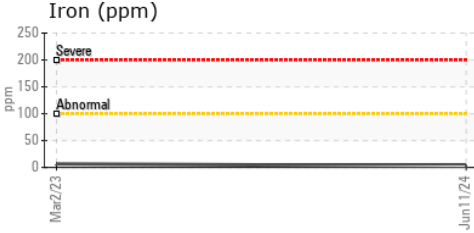


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs/1mm	ASTM D7414*	>25	19.3	12.2	---

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	VLITE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	WGOIL	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	1%	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	13.6	13.8	13.5	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0021695 **Received** : 21 Jun 2024
Lab Number : **02643338** **Tested** : 24 Jun 2024
Unique Number : 5800877 **Diagnosed** : 24 Jun 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, KF, Visual)

CUMMINS EASTERN CANADA LP
 321 DOAK ROAD
 FREDERICTON, NB
 CA E3C 2E7
 Contact: Mark Allen
 mark.w.allen@cummins.com
 T: (506)451-1929
 F: (506)451-1927

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.