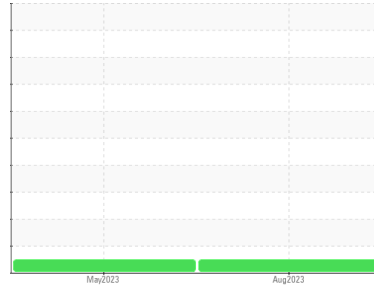


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
DIESEL GENERATING UNITS
Machine Id
CUMMINS AUXILIARY GENERATOR #1 (CAL008) (S/N 37276701)
Component
Auxiliary Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (200 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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			PC0010705	PC0011645	---
Sample Date	Client Info			09 Aug 2023	01 May 2023	---
Machine Age	hrs	Client Info		3178	2802	---
Oil Age	hrs	Client Info		2802	125	---
Oil Changed	Client Info			N/A	Not Changd	---
Sample Status				NORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>4.0		<1.0	<1.0	---
Water	WC Method	>0.1		NEG	NEG	---
Glycol	WC Method			NEG	NEG	---

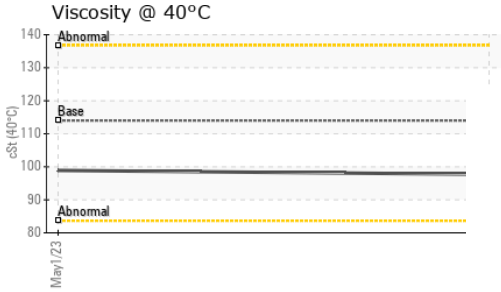
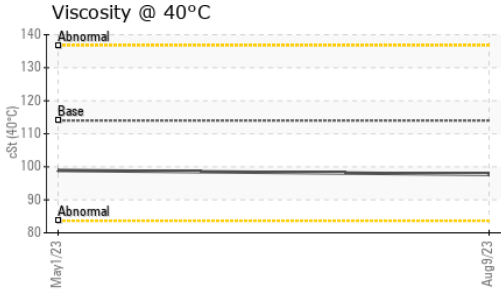
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>35	2	2	---
Chromium	ppm	ASTM D5185(m)	>4	0	0	---
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	0	---
Silver	ppm	ASTM D5185(m)	>2	<1	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	---
Lead	ppm	ASTM D5185(m)	>7	<1	<1	---
Copper	ppm	ASTM D5185(m)	>65	<1	<1	---
Tin	ppm	ASTM D5185(m)	>4	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)	0	52	51	---
Barium	ppm	ASTM D5185(m)	0	<1	0	---
Molybdenum	ppm	ASTM D5185(m)	0	42	40	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)	0	544	544	---
Calcium	ppm	ASTM D5185(m)		1634	1621	---
Phosphorus	ppm	ASTM D5185(m)		759	823	---
Zinc	ppm	ASTM D5185(m)		892	873	---
Sulfur	ppm	ASTM D5185(m)		2149	2210	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	7	7	---
Sodium	ppm	ASTM D5185(m)		2	2	---
Potassium	ppm	ASTM D5185(m)	>20	0	<1	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	5.2	4.9	---
Sulfation	Abs./1mm	ASTM D7415*	>30	20.8	20.9	---

OIL ANALYSIS REPORT

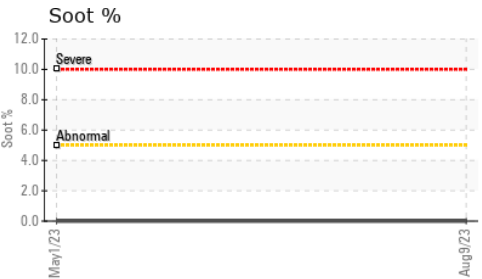
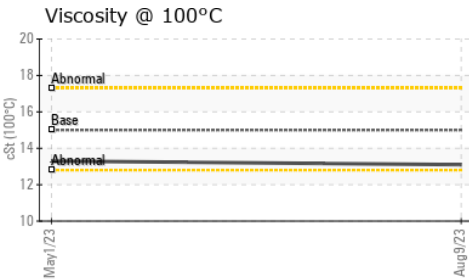
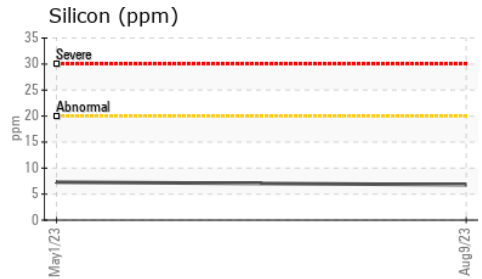
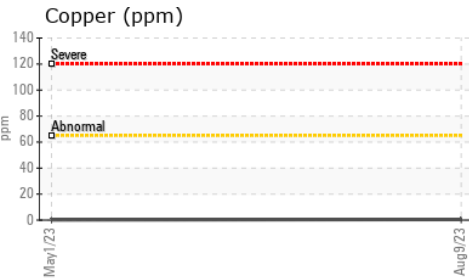
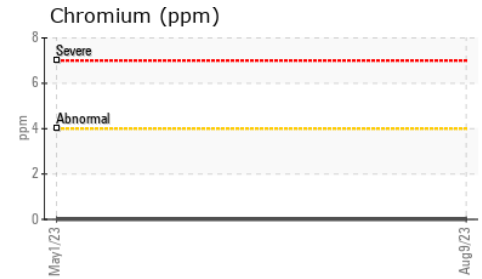
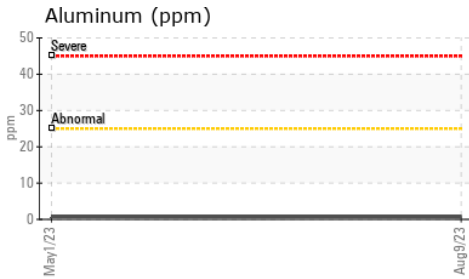
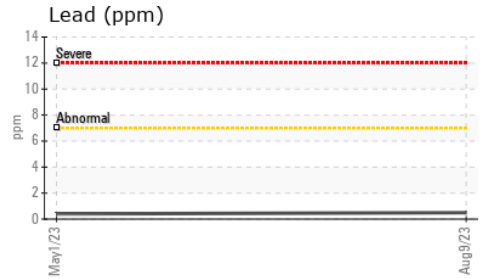
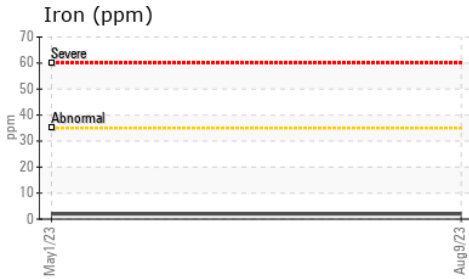


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	17.9	17.9	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	114	97.7	98.9	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	13.1	13.3	---
Viscosity Index (VI)	Scale	ASTM D2270*	137	131	133	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Ocean Choice International - MV Calvert**
Sample No. : PC0010705 **Received** : 18 Dec 2023 1315 Topsail Rd, P.O. Box 8190
Lab Number : **02603689** **Diagnosed** : 18 Dec 2023 St. John's, NL
Unique Number : 5696774 **Diagnostician** : Wes Davis CA A1B 3N4
Test Package : MOB 1 (Additional Tests: KV40, VI) Contact: Calvert Engine Control Room
 calvertengine@oceanchoice.com

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.