



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
[154944]
Machine Id
676 ENG 1
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)



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	CU0022829	---	---
Sample Date	Client Info	20 Mar 2024	---	---
Machine Age	hrs Client Info	2635	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		NORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<1.0	---	---
Water	WC Method >0.2	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >65	2	---	---
Chromium	ppm ASTM D5185(m) >3	0	---	---
Nickel	ppm ASTM D5185(m) >2	0	---	---
Titanium	ppm ASTM D5185(m) >2	0	---	---
Silver	ppm ASTM D5185(m) >2	0	---	---
Aluminum	ppm ASTM D5185(m) >6	0	---	---
Lead	ppm ASTM D5185(m) >13	0	---	---
Copper	ppm ASTM D5185(m) >65	3	---	---
Tin	ppm ASTM D5185(m) >2	0	---	---
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) 250	53	---	---
Barium	ppm ASTM D5185(m) 10	0	---	---
Molybdenum	ppm ASTM D5185(m) 100	39	---	---
Manganese	ppm ASTM D5185(m)	0	---	---
Magnesium	ppm ASTM D5185(m) 450	505	---	---
Calcium	ppm ASTM D5185(m) 3000	1710	---	---
Phosphorus	ppm ASTM D5185(m) 1150	718	---	---
Zinc	ppm ASTM D5185(m) 1350	842	---	---
Sulfur	ppm ASTM D5185(m) 4250	2018	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

CONTAMINANTS

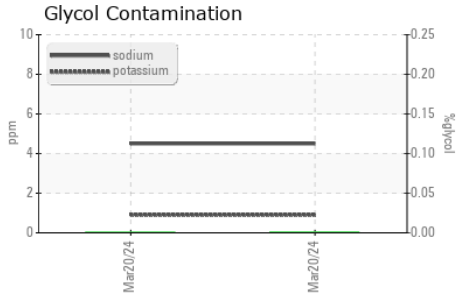
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	2	---	---
Sodium	ppm ASTM D5185(m) >158	4	---	---
Potassium	ppm ASTM D5185(m) >20	<1	---	---
Glycol	% ASTM D7922*	0.0	---	---

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >6	0	---	---
Nitration	Abs/cm ASTM D7624* >20	5.6	---	---
Sulfation	Abs/.1mm ASTM D7415* >30	21.6	---	---



OIL ANALYSIS REPORT

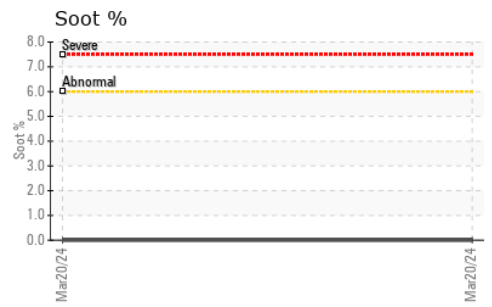
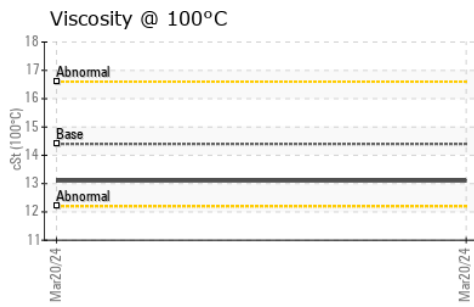
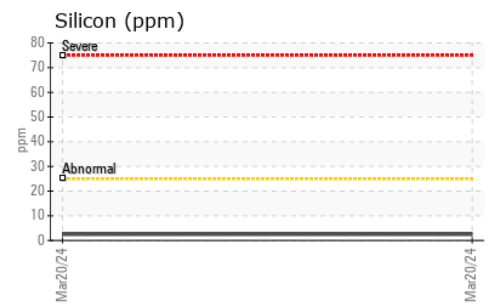
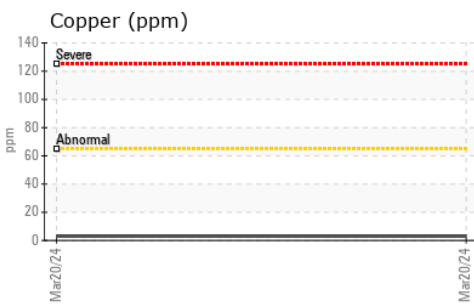
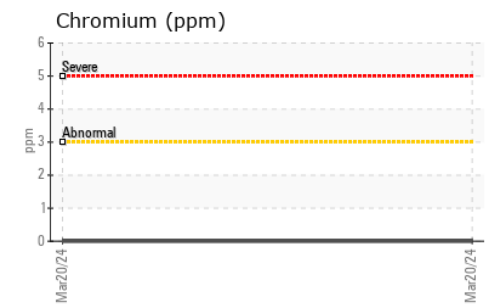
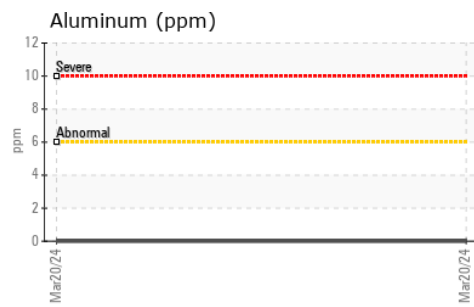
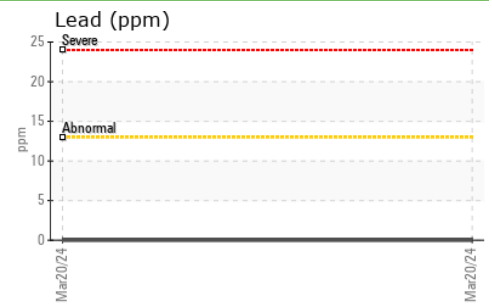
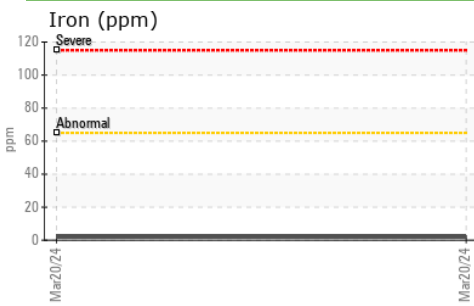
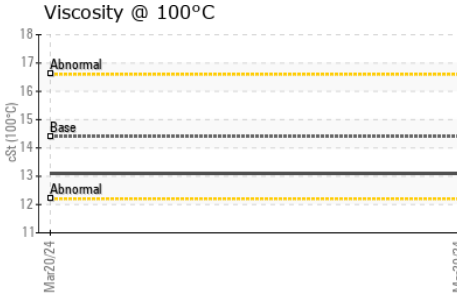


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.8	---	---

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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.1	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0022829
Lab Number : 02623685
Unique Number : 5748804
Test Package : MOB 1 (Additional Tests: Glycol)

CUMMINS CANADA ULC - GENERATOR DIVISION
 7175 PACIFIC CIRCLE
 MISSISSAUGA, ON
 CA L5T 2A5
 Contact: Rick Gamble
 tu762@cummins.com
 T: (905)795-0050
 F: (905)795-0035

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.