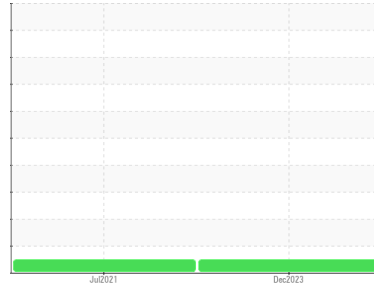




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
[42607682]

Machine Id
9631

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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		WC0853056	WC0581008	---
Sample Date	Client Info		17 Dec 2023	03 Jul 2021	---
Machine Age	kms	Client Info	167139	51424	---
Oil Age	kms	Client Info	0	0	---
Oil Changed	Client Info		Changed	Not Changd	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	---
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	0.0	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >130	15	18	---
Chromium	ppm	ASTM D5185(m) >10	<1	<1	---
Nickel	ppm	ASTM D5185(m) >4	<1	<1	---
Titanium	ppm	ASTM D5185(m) >2	0	0	---
Silver	ppm	ASTM D5185(m) >2	0	0	---
Aluminum	ppm	ASTM D5185(m) >20	4	3	---
Lead	ppm	ASTM D5185(m) >20	<1	2	---
Copper	ppm	ASTM D5185(m) >125	1	46	---
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) 250	43	61	---
Barium	ppm	ASTM D5185(m) 10	<1	0	---
Molybdenum	ppm	ASTM D5185(m) 100	<1	9	---
Manganese	ppm	ASTM D5185(m)	0	1	---
Magnesium	ppm	ASTM D5185(m) 450	738	680	---
Calcium	ppm	ASTM D5185(m) 3000	1364	1348	---
Phosphorus	ppm	ASTM D5185(m) 1150	696	776	---
Zinc	ppm	ASTM D5185(m) 1350	785	844	---
Sulfur	ppm	ASTM D5185(m) 4250	2494	2518	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

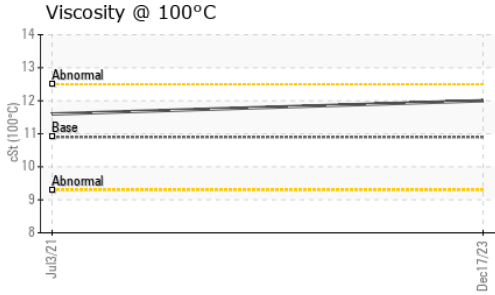
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	8	7	---
Sodium	ppm	ASTM D5185(m)	4	3	---
Potassium	ppm	ASTM D5185(m) >20	11	13	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >6	1.8	0.9	---
Nitration	Abs/cm	ASTM D7624* >20	9.8	8.6	---
Sulfation	Abs.1mm	ASTM D7415* >30	21.8	20.1	---

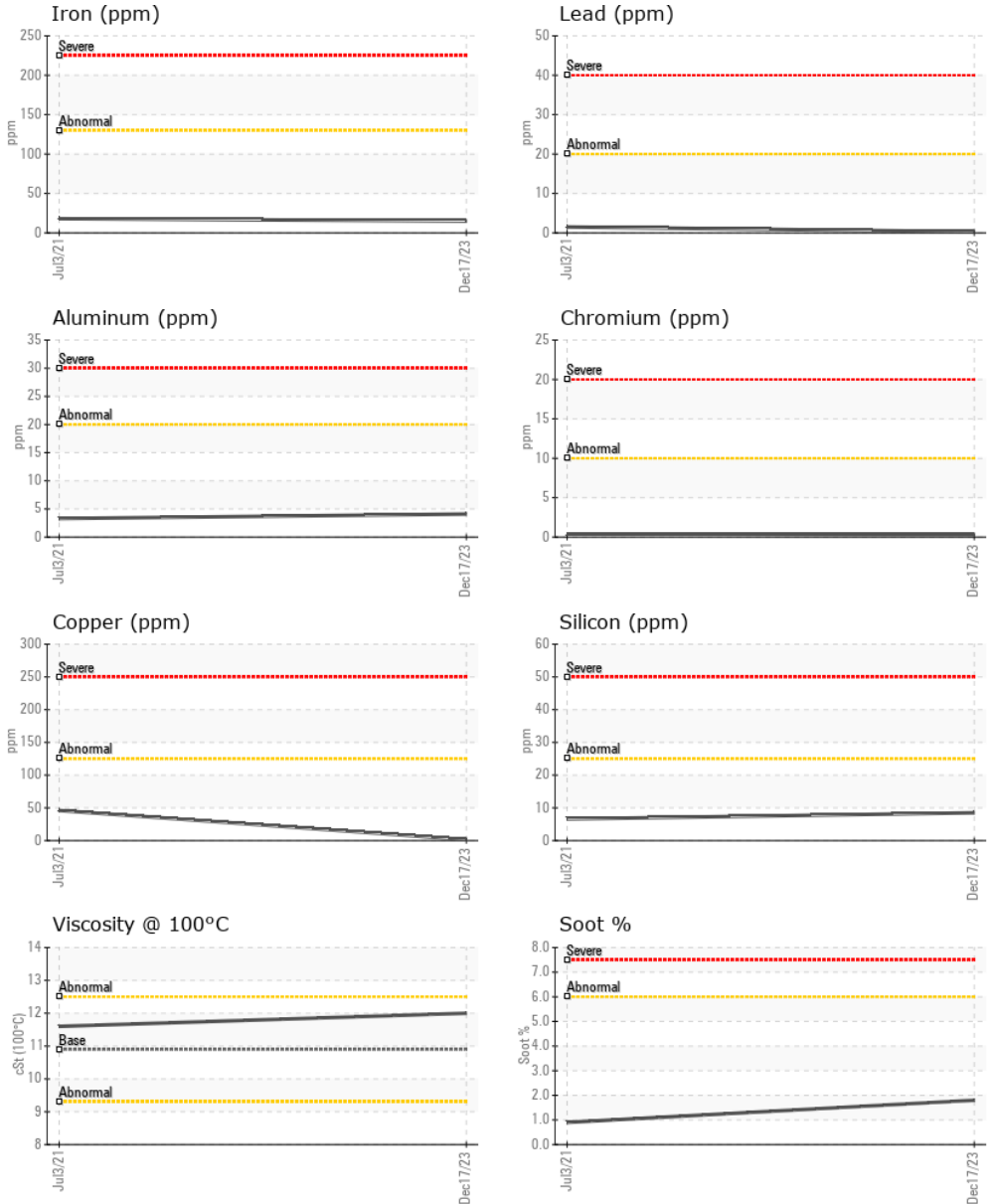


OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	13.3	13.5	---
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	12.0	11.6	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853056 **Received** : 19 Dec 2023
Lab Number : **02603992** **Diagnosed** : 19 Dec 2023
Unique Number : 5697077 **Diagnostician** : Wes Davis
Test Package : MOB 1

Rush Truck Centres
 7450 Torbram Rd.
 Mississauga, ON
 CA L4T 1G9
 Contact: Serdar Okur
 sokur@rushtruckcentres.ca
 T: (905)671-7600
 F:

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.