



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
MACK 1064

Component
Diesel Engine
Fluid

DIESEL ENGINE OIL SAE 40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

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. Light fuel dilution occurring. No other contaminants were detected 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		WC0840685	---	---
Sample Date	Client Info		30 Aug 2023	---	---
Machine Age	kms	Client Info	601611	---	---
Oil Age	kms	Client Info	11405	---	---
Oil Changed	Client Info		Not Chngd	---	---
Sample Status			NORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >120	9	---	---
Chromium	ppm	ASTM D5185(m) >20	<1	---	---
Nickel	ppm	ASTM D5185(m) >5	1	---	---
Titanium	ppm	ASTM D5185(m) >2	0	---	---
Silver	ppm	ASTM D5185(m) >2	0	---	---
Aluminum	ppm	ASTM D5185(m) >20	3	---	---
Lead	ppm	ASTM D5185(m) >40	<1	---	---
Copper	ppm	ASTM D5185(m) >330	2	---	---
Tin	ppm	ASTM D5185(m) >15	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	88	---	---
Barium	ppm	ASTM D5185(m) 10	0	---	---
Molybdenum	ppm	ASTM D5185(m) 100	12	---	---
Manganese	ppm	ASTM D5185(m)	<1	---	---
Magnesium	ppm	ASTM D5185(m) 450	86	---	---
Calcium	ppm	ASTM D5185(m) 3000	2005	---	---
Phosphorus	ppm	ASTM D5185(m) 1150	971	---	---
Zinc	ppm	ASTM D5185(m) 1350	1103	---	---
Sulfur	ppm	ASTM D5185(m) 4250	2718	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	3	---	---
Sodium	ppm	ASTM D5185(m) >216	5	---	---
Potassium	ppm	ASTM D5185(m) >20	7	---	---
Fuel	%	ASTM D7593* >3.0	2.5	---	---
Glycol	%	ASTM D7922*	0.0	---	---

INFRA-RED

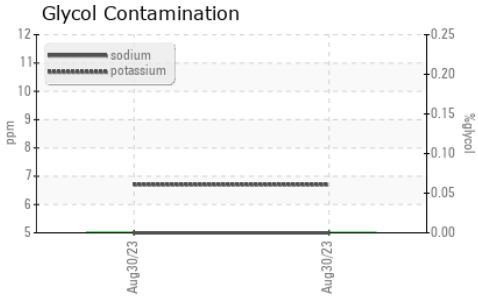
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >4	0.1	---	---
Nitration	Abs/cm	ASTM D7624* >20	7.3	---	---
Sulfation	Abs/.1mm	ASTM D7415* >30	21.2	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	14.7	---	---



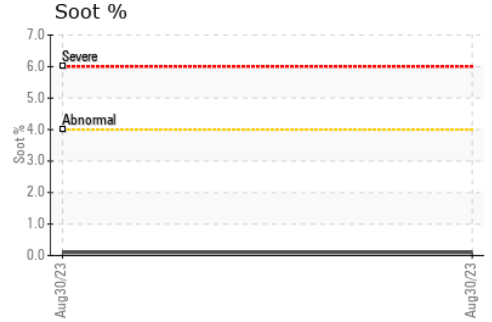
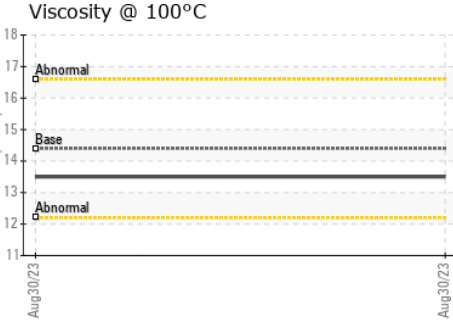
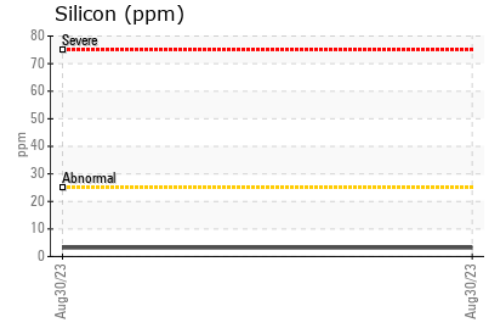
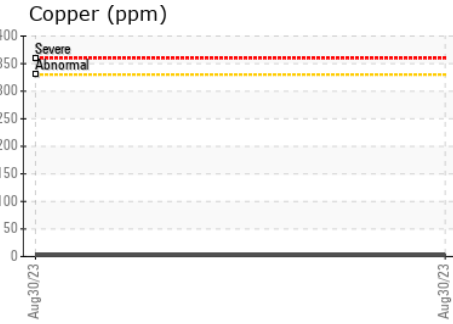
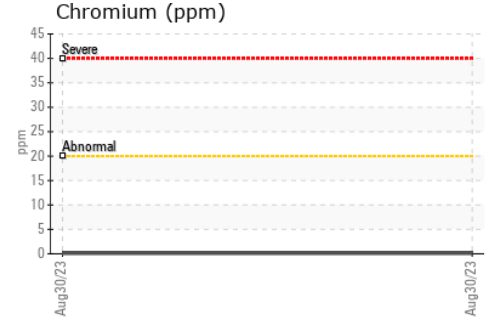
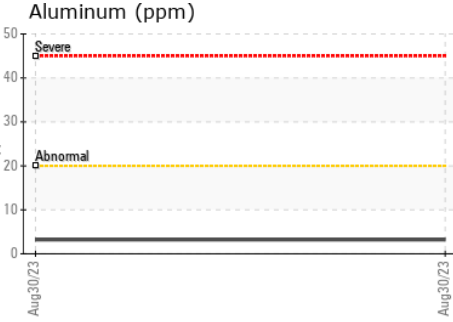
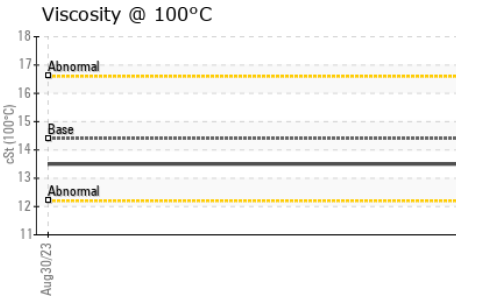
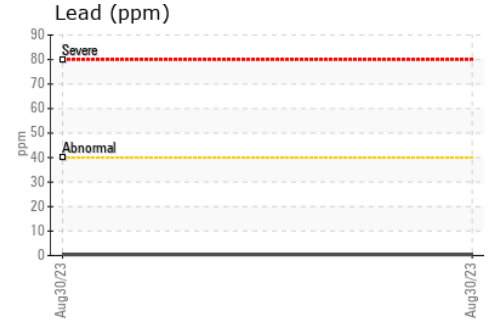
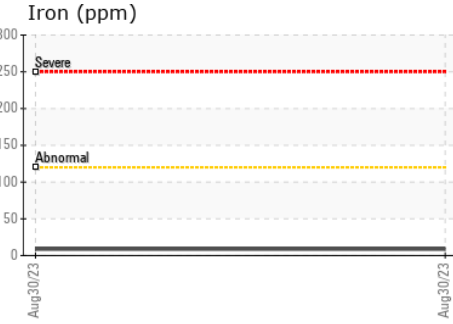
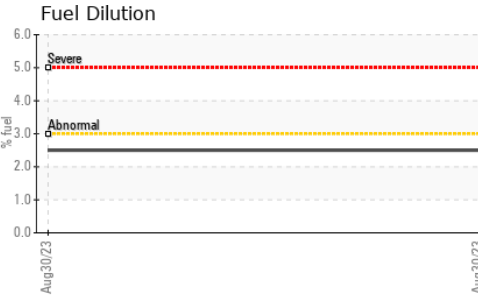
OIL ANALYSIS REPORT



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	13.5	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **BARNARD'S TRUCK SALES & SERV.**
Sample No. : WC0840685 **Received** : 01 Sep 2023 2135 18TH AVENUE EAST, P.O. BOX 602
Lab Number : 02579935 **Diagnosed** : 06 Sep 2023 OWEN SOUND, ON
Unique Number : 5632995 **Diagnostician** : Kevin Marson CA N4K 5R4
Test Package : MOB 1 (Additional Tests: FUELDILUTION, Glycol, PercentFuel) Contact: IAN BARNARD

To discuss this sample report, contact Customer Service at 1-800-268-2131. IBARNARDSTRUCK@HURONTEL.ON.CA
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (519)371-2250
 Validity of results and interpretation are based on the sample and information as supplied. F: (519)371-4762