



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id
79153566
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (--- LTR)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CU0021730	---	---
Sample Date		Client Info		08 Jan 2024	---	---
Machine Age	kms	Client Info		834290	---	---
Oil Age	kms	Client Info		17700	---	---
Filter Age	kms	Client Info		17700	---	---
Oil Changed		Client Info		Not Chngd	---	---
Filter Changed		Client Info		Not Chngd	---	---
Sample Status				MARGINAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	34	---	---
Chromium	ppm	ASTM D5185(m)	>5	2	---	---
Nickel	ppm	ASTM D5185(m)	>4	<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)	>150	1	---	---
Copper	ppm	ASTM D5185(m)	>90	<1	---	---
Tin	ppm	ASTM D5185(m)	>5	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

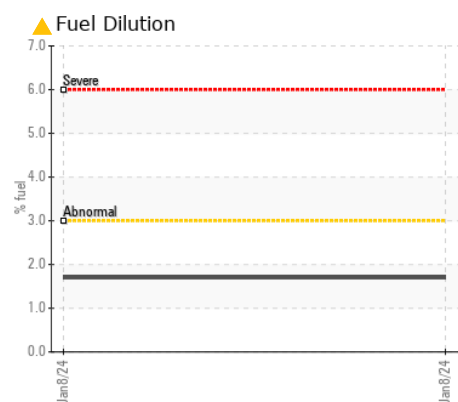
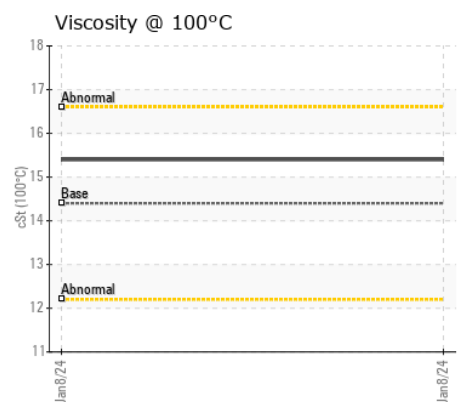
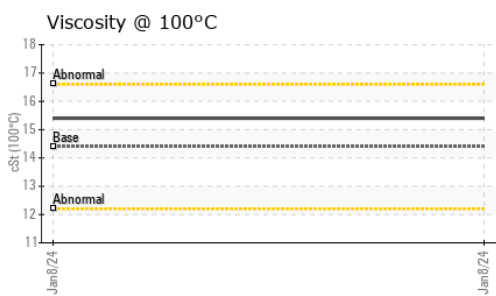
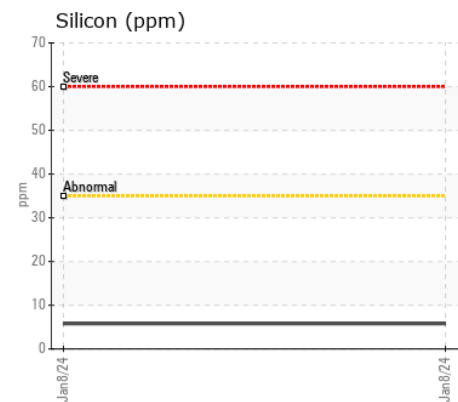
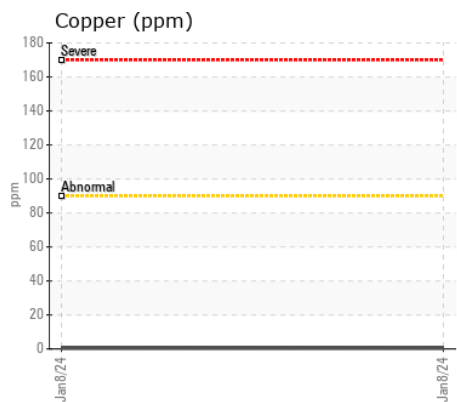
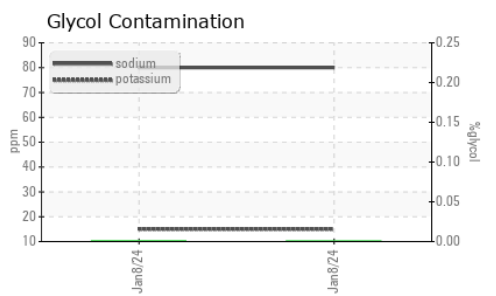
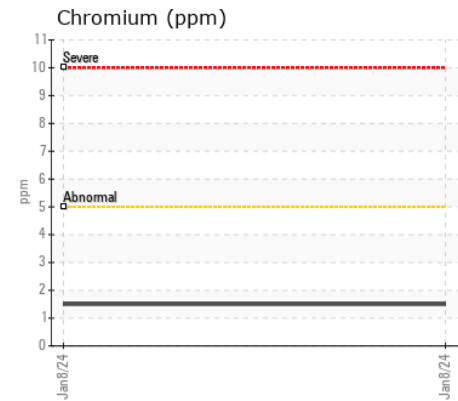
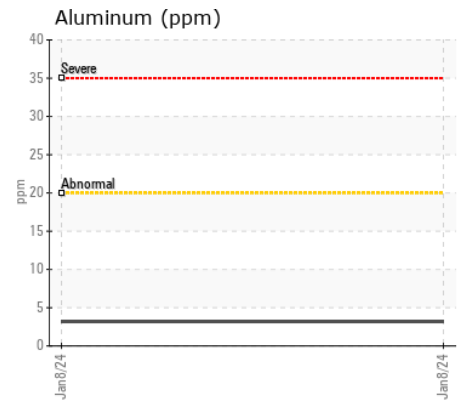
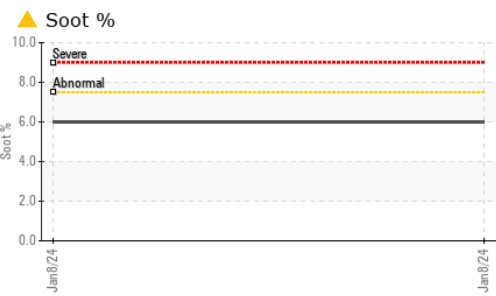
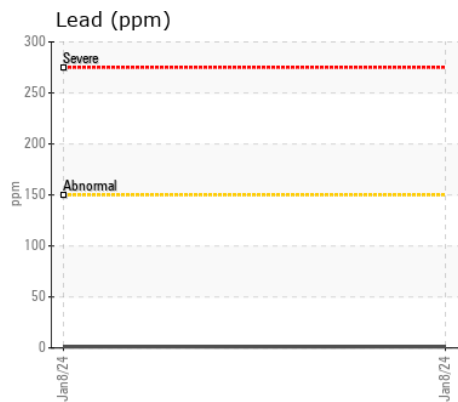
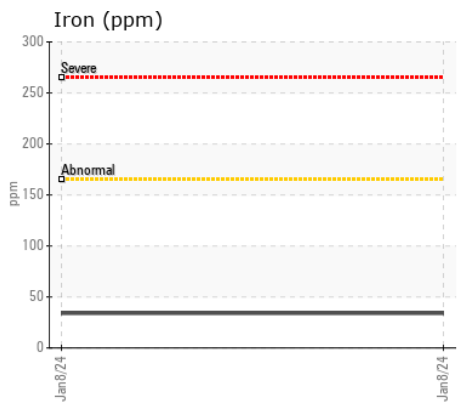
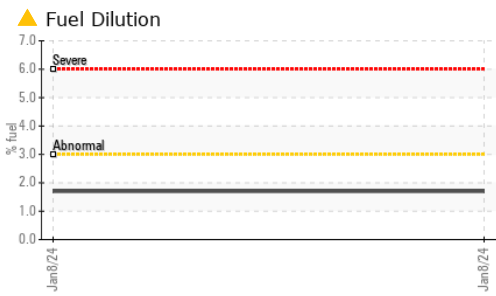
Light concentration of carbon/soot present in the oil. Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>35	6	---	---
Potassium	ppm	ASTM D5185(m)	>20	15	---	---
Fuel	%	ASTM D7593*	>3.0	▲ 1.7	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*	>7.5	▲ 6	---	---
Nitration	Abs/cm	ASTM D7624*	>20	15.3	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	35.4	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)	>216	80	---	---
Boron	ppm	ASTM D5185(m)	250	21	---	---
Barium	ppm	ASTM D5185(m)	10	0	---	---
Molybdenum	ppm	ASTM D5185(m)	100	17	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)	450	15	---	---
Calcium	ppm	ASTM D5185(m)	3000	2053	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	950	---	---
Zinc	ppm	ASTM D5185(m)	1350	1075	---	---
Sulfur	ppm	ASTM D5185(m)	4250	3185	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	15.4	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **EASTERN HEACY EQUIPMENT LTD**
Sample No. : CU0021730 **Received** : 12 Jan 2024 5320 HWY 14
Lab Number : 02608410 **Diagnosed** : 16 Jan 2024 UPPER NINE MILE RIVER, NS
Unique Number : 5709496 **Diagnostician** : Kevin Marson CA B2S 3A4
Test Package : MOB 1 (Additional Tests: FUELDILUTION, Glycol, PercentFuel) Contact: Service Manager

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