



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[PMOAS2537218]
 Machine Id
SD100 3001236197 - ENBRIDGE POWER
 Component
Diesel Engine
 Fluid
NAPA Motor Oil 15W40 (4 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0023235	DC0023249	DCM1030430
Sample Date		Client Info		14 Dec 2023	15 Nov 2022	17 Oct 2019
Machine Age	hrs	Client Info		282	234	88
Oil Age	hrs	Client Info		48	67	0
Filter Age	hrs	Client Info		48	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	3	4	3
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	2	1
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	1	7
Tin	ppm	ASTM D5185m	>15	<1	0	2
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

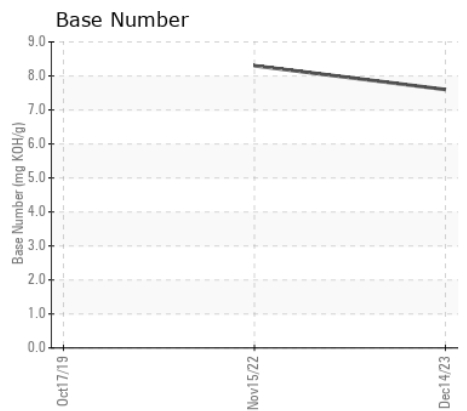
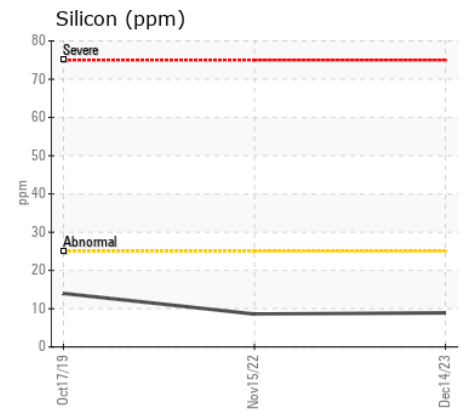
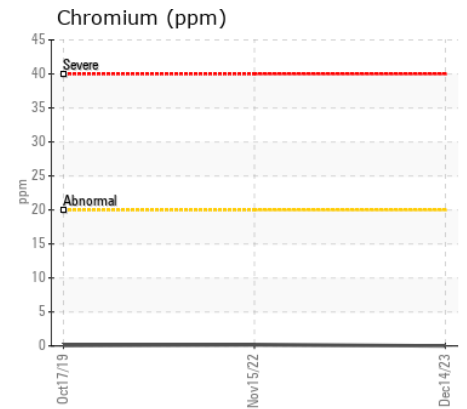
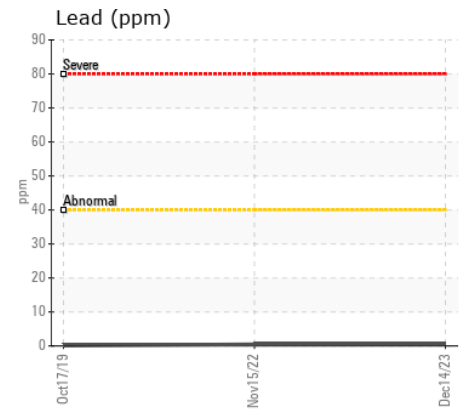
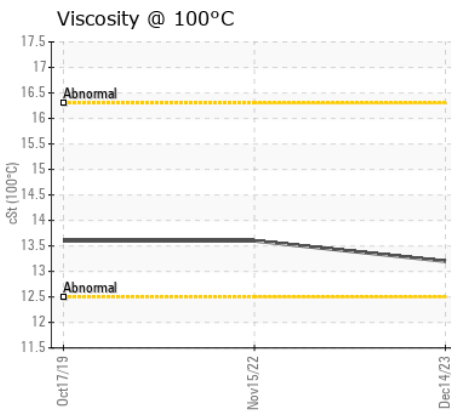
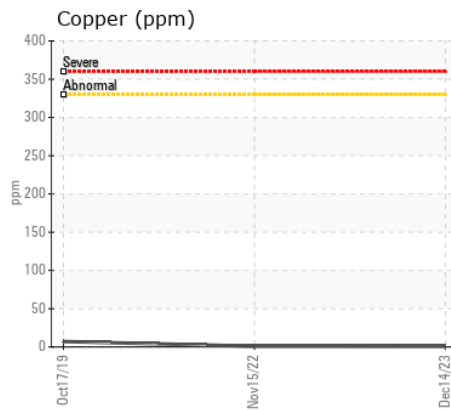
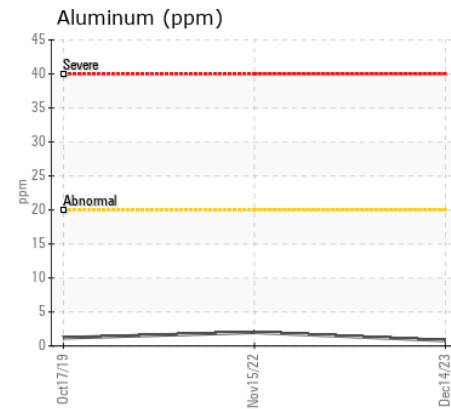
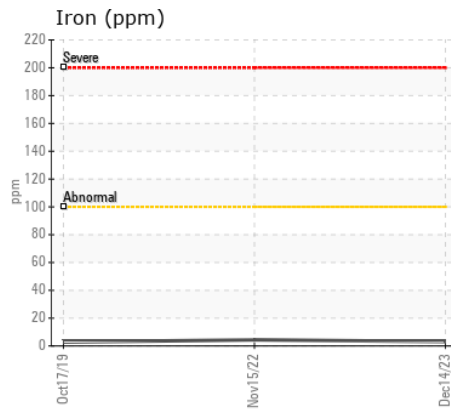
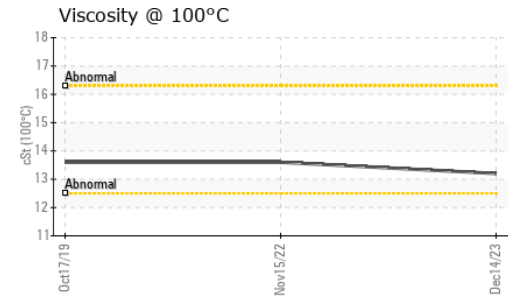
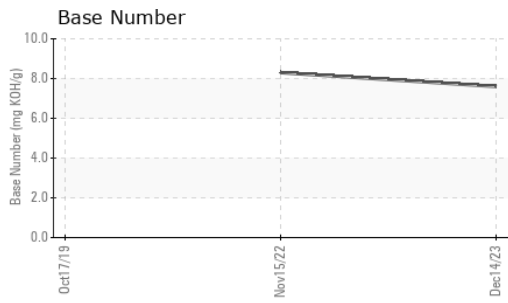
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	9	9	14
Potassium	ppm	ASTM D5185m	>20	1	1	1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.7	9.3	4.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.6	18.5	17.5
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	1	1
Boron	ppm	ASTM D5185m		17	68	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		22	80	62
Manganese	ppm	ASTM D5185m		<1	1	8
Magnesium	ppm	ASTM D5185m		32	29	457
Calcium	ppm	ASTM D5185m		2209	2247	1911
Phosphorus	ppm	ASTM D5185m		965	1022	1033
Zinc	ppm	ASTM D5185m		1128	1172	1071
Sulfur	ppm	ASTM D5185m		3776	4113	1546
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.1	14.4	13.4
Base Number (BN)	mg KOH/g	ASTM D2896		7.6	8.3	---
Visc @ 100°C	cSt	ASTM D445		13.2	13.6	13.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0023235 **Received** : 10 Jan 2024
Lab Number : 06056423 **Diagnosed** : 11 Jan 2024
Unique Number : 10822372 **Diagnostician** : Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

KELLY GENERATOR & EQUIPMENT INC
 1955 DALE LN
 OWINGS, MD
 US 20736
 Contact: LESLIE SNURR
 LSNURR@KGE.COM
 T: (410)257-5225
 F: (410)257-5227

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)