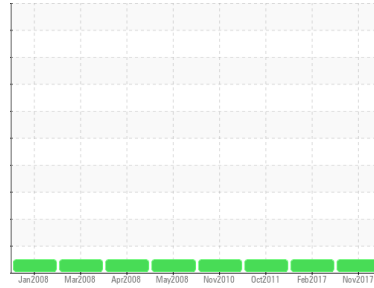




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
CLV DIESEL

Component
Diesel Engine

Fluid
DURON LUBE SAE 15W40 (27 LTR)

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC963566	WC925432	WC782643
Sample Date	Client Info			09 Nov 2017	07 Feb 2017	12 Oct 2011
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	6	6	3
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	1	<1	<1
Lead	ppm	ASTM D5185(m)	>40	<1	1	<1
Copper	ppm	ASTM D5185(m)	>330	2	5	<1
Tin	ppm	ASTM D5185(m)	>15	<1	<1	0
Antimony	ppm	ASTM D5185(m)		1	1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

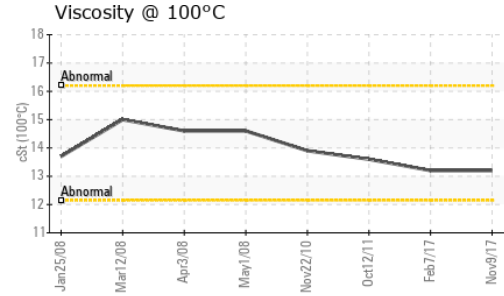
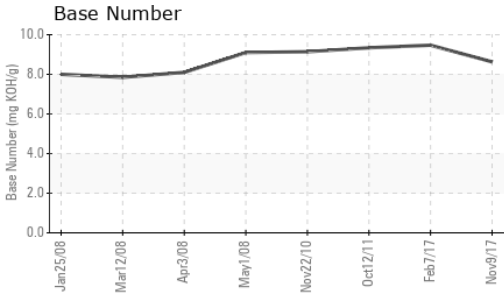
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		1	2	2
Barium	ppm	ASTM D5185(m)		<1	<1	0
Molybdenum	ppm	ASTM D5185(m)		41	42	42
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		863	843	796
Calcium	ppm	ASTM D5185(m)		1250	1252	1347
Phosphorus	ppm	ASTM D5185(m)		1045	1027	1064
Zinc	ppm	ASTM D5185(m)		1231	1228	1273
Sulfur	ppm	ASTM D5185(m)		3075	3043	3779
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	3	3
Sodium	ppm	ASTM D5185(m)		3	4	4
Potassium	ppm	ASTM D5185(m)	>20	2	<1	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*		7.9	7.4	6.3
Sulfation	Abs.1mm	ASTM D7415*		21.8	20.5	20.0



OIL ANALYSIS REPORT

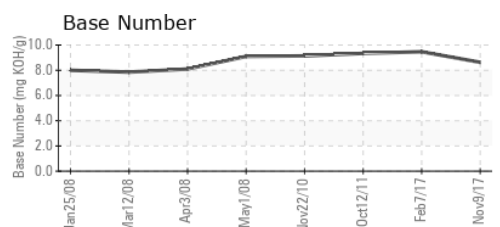
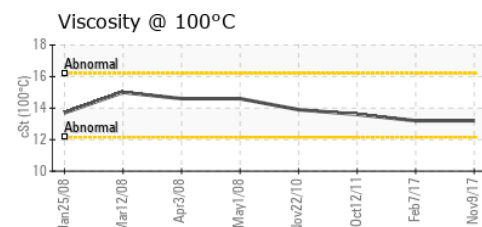
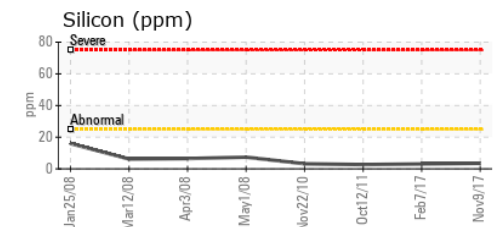
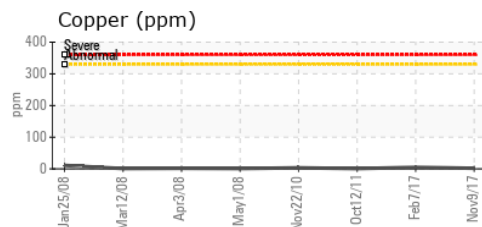
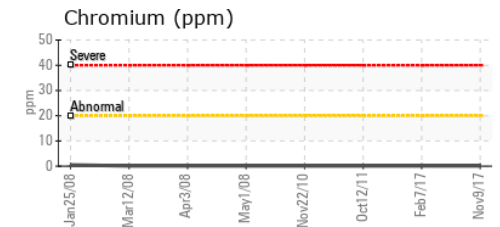
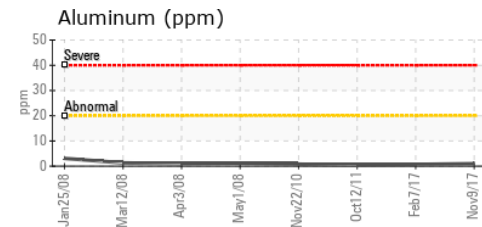
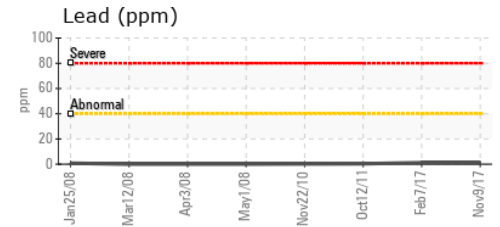
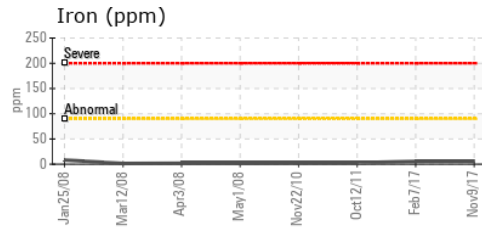


FLUID DEGRADATION			method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*			13.6	14.4	11.9
Base Number (BN)	mg KOH/g	ASTM D2896*			8.63	9.47	9.34

VISUAL			method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE		NONE	---	---
Yellow Metal	scalar	Visual*	NONE		NONE	---	---
Precipitate	scalar	Visual*	NONE		NONE	---	---
Silt	scalar	Visual*	NONE		NONE	---	---
Debris	scalar	Visual*	NONE		NONE	---	---
Sand/Dirt	scalar	Visual*	NONE		NONE	---	---
Appearance	scalar	Visual*	NORML		NORML	---	---
Odor	scalar	Visual*	NORML		NORML	---	---
Emulsified Water	scalar	Visual*	>0.2		NEG	NEG	NEG
Free Water	scalar	Visual*			NEG	NEG	NEG

FLUID PROPERTIES			method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)			13.2	13.2	13.6

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC963566 **Received** : 10 Nov 2017
Lab Number : **02181460** **Diagnosed** : 13 Nov 2017
Unique Number : 4600564 **Diagnostician** : Wes Davis
Test Package : MOB 2 (Additional Tests: Visual)

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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.