

Machine Id
E-ONE A215/27049

Component
Rear Diesel Engine

Fluid
CASTROL HYPURON 15W40 (36 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

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			PC0085025	PC0056536	AP102828
Sample Date	Client Info			07 Feb 2024	15 Nov 2022	14 Jun 2017
Machine Age	kms	Client Info		64861	0	12986
Oil Age	kms	Client Info		0	6	0
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	MARGINAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>3.0		<1.0	▲ 1.4	<1.0
Water	WC Method	>0.2		NEG	NEG	NEG
Glycol	WC Method			NEG	NEG	NEG

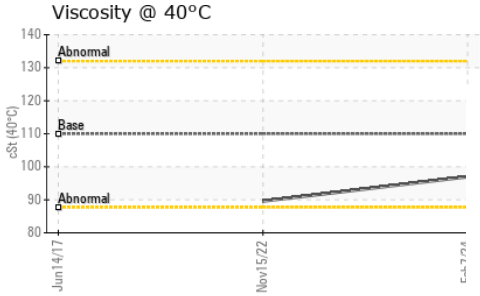
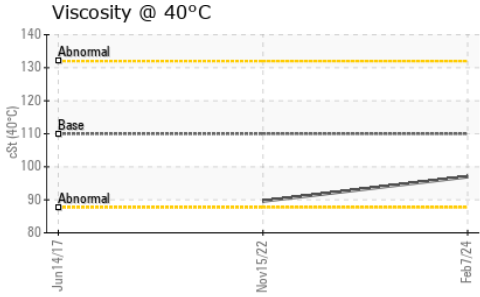
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>165	15	10	32
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	2
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	2
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	2	3
Lead	ppm	ASTM D5185(m)	>150	11	2	4
Copper	ppm	ASTM D5185(m)	>90	<1	1	103
Tin	ppm	ASTM D5185(m)	>5	<1	<1	2
Antimony	ppm	ASTM D5185(m)		0	0	2
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)		4	53	36
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		60	57	3
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		983	1007	56
Calcium	ppm	ASTM D5185(m)		1055	1098	2599
Phosphorus	ppm	ASTM D5185(m)		1019	1063	1048
Zinc	ppm	ASTM D5185(m)		1181	1219	1356
Sulfur	ppm	ASTM D5185(m)		2671	2820	3388
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>35	3	6	21
Sodium	ppm	ASTM D5185(m)		5	2	5
Potassium	ppm	ASTM D5185(m)	>20	3	1	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>7.5	0.5	0.4	1.2
Nitration	Abs/cm	ASTM D7624*	>20	8.8	8.9	12.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.9	23.1	30.0

OIL ANALYSIS REPORT

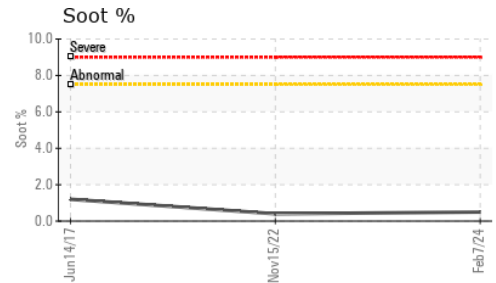
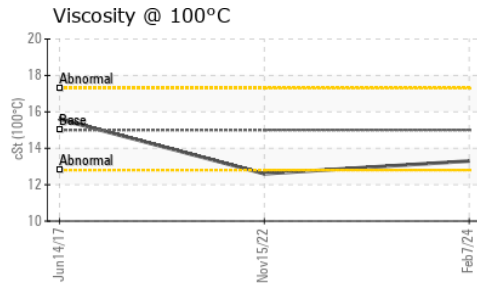
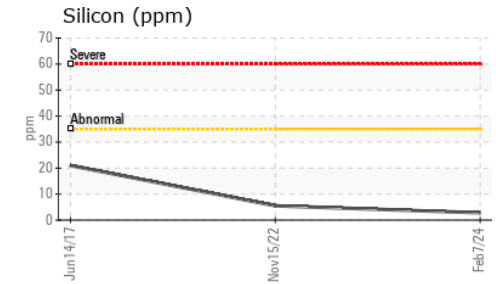
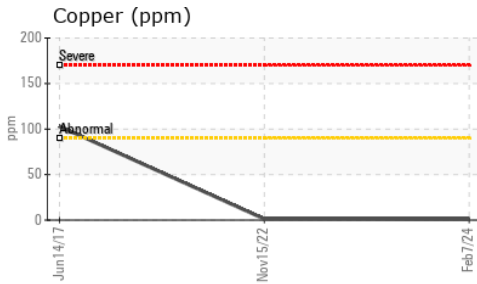
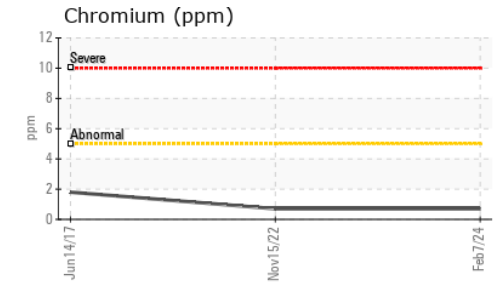
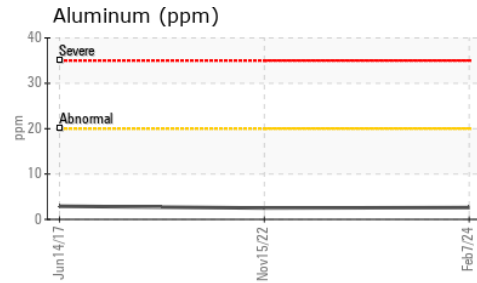
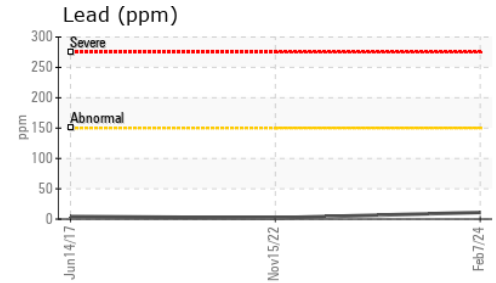
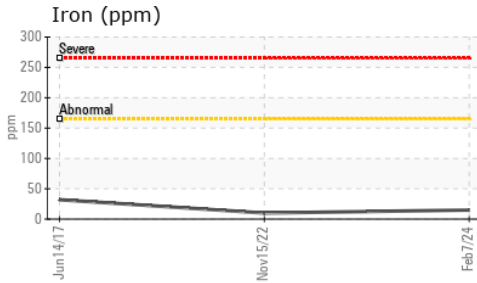


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	18.4	18.6	21.9

VISUAL		method	limit/base	current	history1	history2
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 @ 40°C	cSt	ASTM D7279(m)	110	97.0	89.6	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	13.3	12.6	15.6
Viscosity Index (VI)	Scale	ASTM D2270*	140	136	137	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0085025 **Received** : 01 Mar 2024
Lab Number : **02619174** **Tested** : 01 Mar 2024
Unique Number : 5736284 **Diagnosed** : 01 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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.