

Machine Id **1364** Component **Rear Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

RECOMMENDATION

Metal levels are typical for a new component breaking in.

WEAR

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the component make and model with your next sample.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0895802	WC0873858	WC0850845
	Sample Date		Client Info		12 Jan 2024	14 Nov 2023	11 Sep 2023
	Machine Age	kms	Client Info		34276	33763	33220
	Oil Age	kms	Client Info		513	543	440
	Filter Age	kms	Client Info		513	543	440
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				MARGINAL	ABNORMAL	NORMAL
	Iron	ppm	ASTM D5185(m)	>100	13	14	13
	Chromium	ppm	ASTM D5185(m)	>20	<1	<	<
	NICKEI	ppm	ASTM D5185(m)	>4	<1	<	<
	l Itanium Oʻlusin	ppm	ASTM D5185(m)	0	0	0	0
	Sliver	ppm	ASTM D5185(m)	>3	0	<	0
	Aluminum	ppm	ASTM D5185(m)	>20	1	1	1
	Lead	ppm	ASTM D5185(m)	>40	3	2	<1
	Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
	l in	ppm	ASTM D5185(m)	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	Silicon	ppm	ASTM D5185(m)	>25	4	4	6
	Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
	Fuel	%	ASTM D7593*	>5	4 .9	4.3	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.5	0.5	0.4
	Nitration	Abs/cm	ASTM D7624*	>20	9.8	10.2	8.8
	Sulfation	Abs/.1mm	ASTM D7415*	>30	25.3	31.0	25.9
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)	>158	1	3	2
	Boron	ppm	ASTM D5185(m)	250	2	1	1
	Barium	ppm	ASTM D5185(m)	10	0	<1	0
	Molybdenum	ppm	ASTM D5185(m)	100	55	55	57
	Manganese	ppm	ASTM D5185(m)		0	0	<1
	Magnesium	ppm	ASTM D5185(m)	450	904	861	931
	Calcium	ppm	ASTM D5185(m)	3000	992	971	1007
	Phosphorus	ppm	ASTM D5185(m)	1150	915	831	994
	Zinc	ppm	ASTM D5185(m)	1350	1084	1047	1136
	Sulfur	ppm	ASTM D5185(m)	4250	2566	2301	2479
	Oxidation	Abs/.1mm	ASTM D7414*	>25	26.9	38.9	28.0

ASTM D7279(m) 14.4

Visc @ 100°C cSt

CONTAMINATION

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.

Contact/Location: Brent Gunter - KIN399KIN

11.3

12.2

12.5





/lar16/22

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Mar16/22

KINGSTON TRANSIT Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : WC0895802 Recieved : 22 Jan 2024 1181 JOHN COUNTER BLVD Lab Number KINGSTON, ON : 02610103 Diagnosed : 24 Jan 2024 ISO 17025:2017 Accredited : 5711189 CA K7K 6C7 Unique Number Diagnostician : Kevin Marson Laboratory Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel) Contact: Brent Gunter To discuss this sample report, contact Customer Service at 1-800-268-2131. bgunter@cityofkingston.ca T: (613)546-4291 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (613)542-1504 Validity of results and interpretation are based on the sample and information as supplied.

Aug14/18

un17/19

Jul15/20

Apr29/21

Viscosity @ 100°C

18

16

13

(0.001) 1S²

8

Feb12/17

0ct19/17

Ab

B

Contact/Location: Brent Gunter - KIN399KIN

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