

## Machine Id **1684** Component **Rear Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## RECOMMENDATION

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.

WEAR			

All component wear rates are normal.

## CONTAMINATION

Light fuel dilution occurring. No other contaminants were detected in the oil.

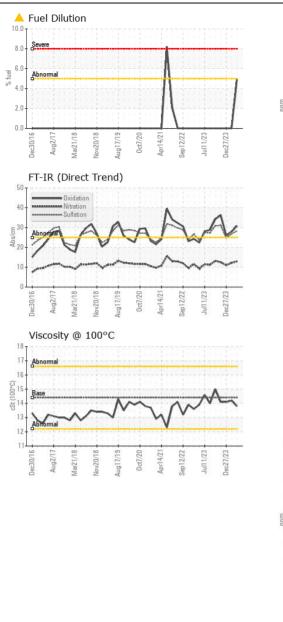
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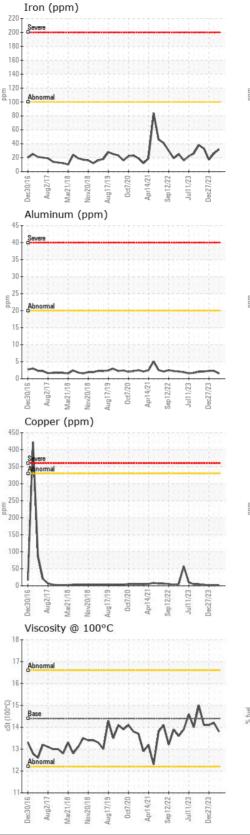
## FLUID CONDITION

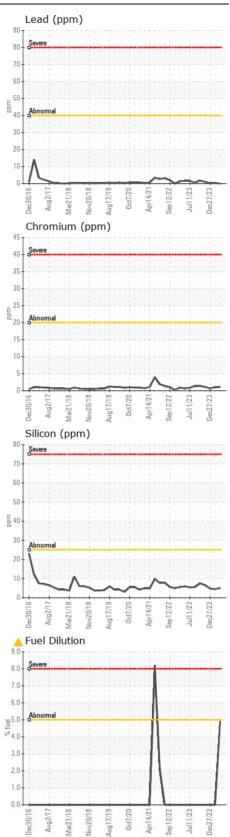
The condition of the oil is acceptable for the time in service.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0925686	WC0905428	WC0887369
	Sample Date		Client Info		09 Apr 2024	08 Feb 2024	27 Dec 2023
	Machine Age	hrs	Client Info		9293	8769	8246
	Oil Age	hrs	Client Info		524	475	399
	Filter Age	hrs	Client Info		524	475	399
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				MARGINAL	NORMAL	NORMAL
	Iron		ASTM D5185(m)	>100	32	26	17
	Chromium	ppm	ASTM D5185(m)	>20	1	1	<1
	Nickel	ppm ppm	ASTM D5185(m)	>4	' <1	<1	<1
	Titanium		ASTM D5185(m)	24	0	0	0
	Silver	ppm ppm	ASTM D5185(m)	>3	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
	Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
	Copper	ppm	ASTM D5185(m)	>330	2	2	1
	Tin	ppm	ASTM D5185(m)	>15	0	0	0
	Vanadium	ppm	ASTM D5185(m)	, 10	0	0	0
		PPIII					
	Silicon	ppm	ASTM D5185(m)	>25	5	4	5
	Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
	Fuel	%	ASTM D7593*	>5	<b>4</b> .9	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.9	0.8	0.5
	Nitration	Abs/cm	ASTM D7624*	>20	12.9	12.2	11.0
	Sulfation	Abs/.1mm	ASTM D7415*	>30	28.2	26.8	24.7
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)	>158	2	2	2
	Boron	ppm	ASTM D5185(m)	250	2	2	2
	Barium	ppm	ASTM D5185(m)	10	0	0	0
	Molybdenum	ppm	ASTM D5185(m)	100	61	60	59
	Manganese	ppm	ASTM D5185(m)		<1	0	0
	Magnesium	ppm	ASTM D5185(m)	450	982	995	973
	Calcium	ppm	ASTM D5185(m)	3000	1076	1134	1069
	Phosphorus	ppm	ASTM D5185(m)	1150	969	1016	984
	Zinc	ppm	ASTM D5185(m)	1350	1184	1202	1171
	Sulfur	ppm	ASTM D5185(m)	4250	2301	2627	2594
	Oxidation	Abs/.1mm	ASTM D7414*	>25	30.8	27.9	26.0
	Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.8	14.2	14.1
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Contact/Location: Brent Gunter - KIN399KIN







Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : WC0925686 Received : 11 Apr 2024 Lab Number : 02628135 Tested : 12 Apr 2024 ISO 17025:2017 Accredited : 12 Apr 2024 - Wes Davis Unique Number : 5761267 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel) 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.

**KINGSTON TRANSIT** 

1181 JOHN COUNTER BLVD KINGSTON, ON CA K7K 6C7 Contact: Brent Gunter bgunter@cityofkingston.ca T: (613)546-4291 F: (613)542-1504

Contact/Location: Brent Gunter - KIN399KIN Page 2 of 2