

## Machine Id **1504** Component **Rear Diesel Engine** Fluid **PETRO CANADA DURON SHP 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.

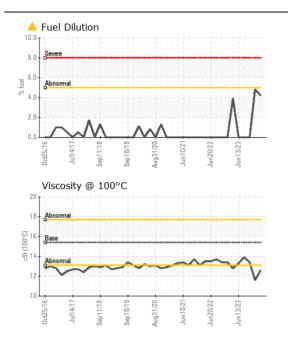
.....

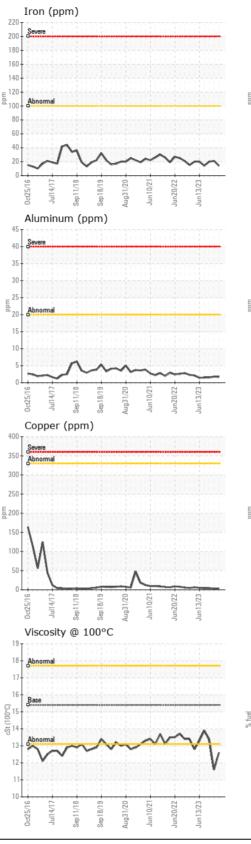
## FLUID CONDITION

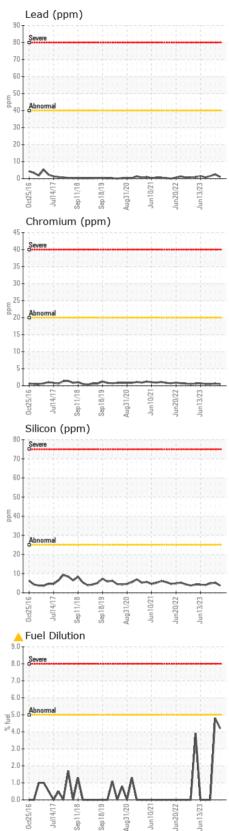
The condition of the oil is acceptable for the time in service.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0895809	WC0873847	WC0858509
	Sample Date		Client Info		10 Jan 2024	22 Nov 2023	22 Sep 2023
	Machine Age	hrs	Client Info		27724	27252	26649
	Oil Age	hrs	Client Info		474	603	565
	Filter Age	hrs	Client Info		474	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				MARGINAL	ABNORMAL	NORMAL
				400		04	
	Iron	ppm	ASTM D5185(m)	>100	14	21	20
	Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
	Titanium	ppm	ASTM D5185(m)	0	0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
	Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
	Lead	ppm	ASTM D5185(m)	>40	<1	2	2
	Copper	ppm	ASTM D5185(m)	>330	3	3	4
	Tin	ppm	ASTM D5185(m)	>15	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	Silicon	ppm	ASTM D5185(m)	>25	4	5	5
	Potassium	ppm	ASTM D5185(m)	>20	0	0	0
	Fuel	%	ASTM D7593*	>5	<b>4</b> .2	4.8	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.4	0.5	0.7
	Nitration	Abs/cm	ASTM D7624*	>20	10.6	12.2	11.2
	Sulfation	Abs/.1mm	ASTM D7415*	>30	26.0	<b>▲</b> 35.1	28.0
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)		2	3	3
	Boron	ppm	ASTM D5185(m)	0	2	1	1
	Barium	ppm	ASTM D5185(m)	0	0	<1	<1
	Molybdenum	ppm	ASTM D5185(m)	60	57	56	60
	Manganese	ppm	ASTM D5185(m)	0	0	0	0
	Magnesium	ppm	ASTM D5185(m)	1010	925	876	951
	Calcium	ppm	ASTM D5185(m)	1070	1020	981	1055
	Phosphorus	ppm	ASTM D5185(m)	1150	924	850	914
	Zinc	ppm	ASTM D5185(m)	1270	1102	1073	1152
	Sulfur	ppm	ASTM D5185(m)	2060	2506	2213	2335
	Oxidation	Abs/.1mm	ASTM D7414*	>25	28.0	<b>4</b> 7.7	30.4
	Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.6	<b>▲</b> 11.6	13.4
					$\sim$		

Contact/Location: Brent Gunter - KIN399KIN







**KINGSTON TRANSIT** Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : WC0895809 Recieved : 16 Jan 2024 1181 JOHN COUNTER BLVD Lab Number : 02608888 KINGSTON, ON Diagnosed : 17 Jan 2024 ISO 17025:2017 : 5709974 Accredited 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.

Report Id: KIN399KIN [WCAMIS] 02608888 (Generated: 01/17/2024 12:25:48) Rev: 1

Contact/Location: Brent Gunter - KIN399KIN