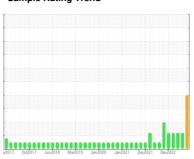


OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id 1510 Component

Rear Diesel Engine

PETRO CANADA DURON HP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for faulty combustion and a possible overheat condition. Check for low coolant level. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

Water treatment chemicals present, indicating slow coolant leak. There is a moderate concentration of dirt present in the oil. Test for glycol is negative.

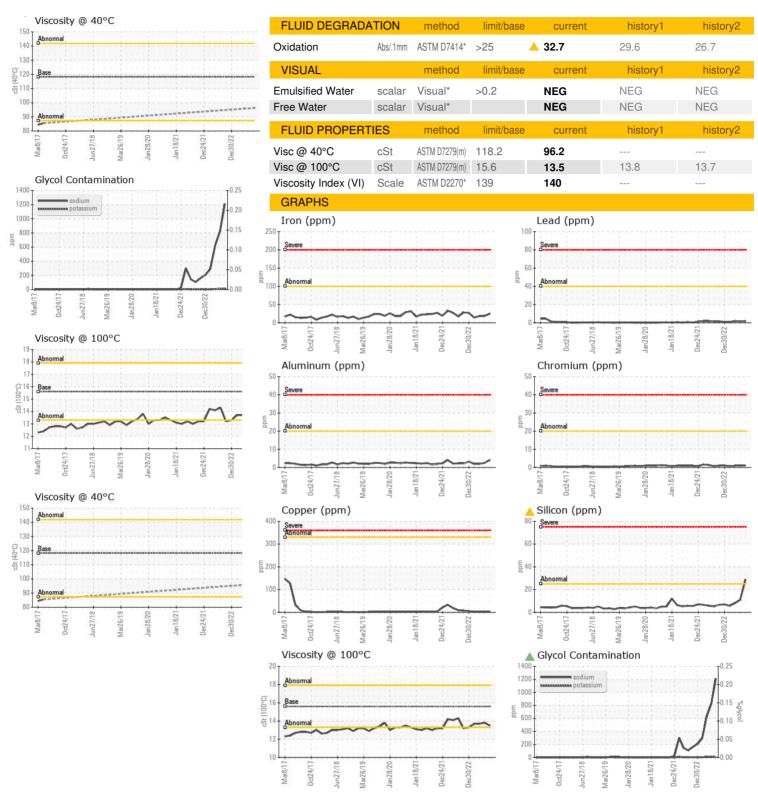
Fluid Condition

A small degree of oil oxidation was indicated. The oil is no longer serviceable. The condition of the oil is acceptable for the time in service (see recommendation).

AL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0873846	WC0841025	WC0812476
Sample Date		Client Info		22 Nov 2023	19 Jul 2023	18 May 2023
Machine Age	hrs	Client Info		27033	26474	25912
Oil Age	hrs	Client Info		559	482	572
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	ATTENTION
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	25	18	18
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	<1
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	4	2	2
Lead	ppm	ASTM D5185(m)	>40	2	1	2
Copper	ppm	ASTM D5185(m)	>330	4	3	3
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
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)	0	19	11	11
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	102	86	77
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	878	934	934
Calcium	ppm	ASTM D5185(m)	1070	1001	1007	1061
Phosphorus	ppm	ASTM D5185(m)	1150	758	887	969
Zinc	ppm	ASTM D5185(m)	1270	1097	1110	1111
Sulfur	ppm	ASTM D5185(m)	2060	2523	2549	2525
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<u>^</u> 29	11	8
Sodium	ppm	ASTM D5185(m)		1212	▲ 826	▲ 626
Potassium	ppm	ASTM D5185(m)	>20	15	10	7
Glycol	%	ASTM D7922*		0.0	0.0	0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4	0.5	0.5
Nitration	Abs/cm	ASTM D7624*	>20	13.8	12.5	11.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	29.3	28.4	26.2



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

: WC0873846 : 02601147 : 5694232

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Recieved Diagnosed

: 07 Dec 2023 Diagnostician : Bill Quesnel

: 06 Dec 2023

Test Package : MOB 1 (Additional Tests: Glycol, KV40, VI) 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