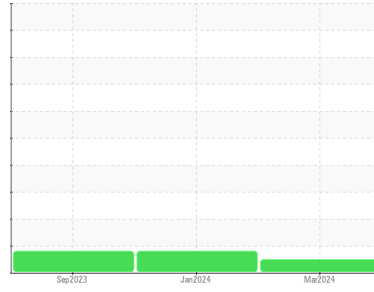


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
0135
Component
Rear Left Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (24 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PC0080339	PC0082834	PC0032176
Sample Date	Client Info			27 Mar 2024	02 Jan 2024	28 Sep 2023
Machine Age	kms	Client Info		40107	27081	13370
Oil Age	kms	Client Info		12834	13711	13292
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	MARGINAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	▲ 1.7	▲ 3.2	
Water	WC Method	>0.2	NEG	NEG	NEG	
Glycol	WC Method		NEG	NEG	0.0	

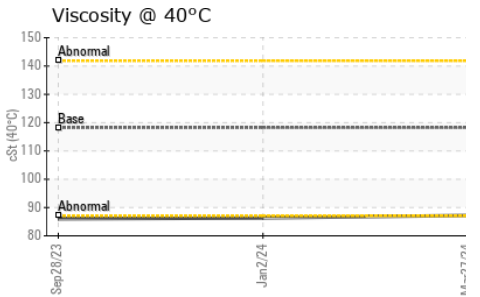
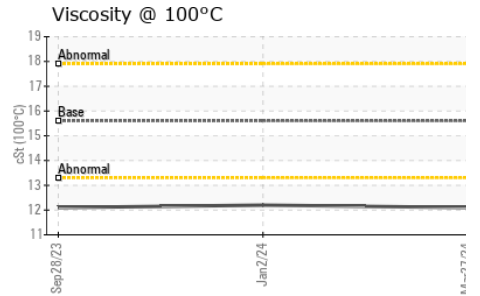
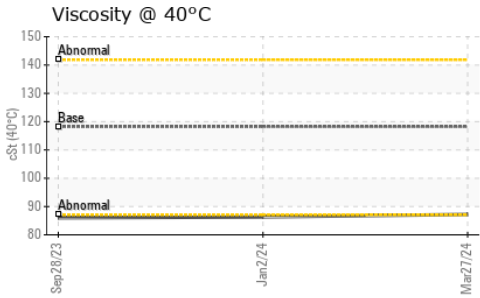
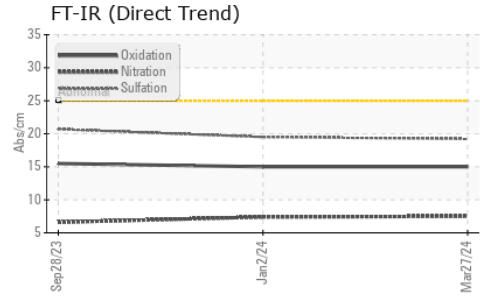
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	22	28	44
Chromium	ppm	ASTM D5185(m)	>20	1	2	2
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	3	5
Lead	ppm	ASTM D5185(m)	>40	0	1	2
Copper	ppm	ASTM D5185(m)	>330	<1	<1	1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
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	6	6	29
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	61	60	34
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	1007	972	534
Calcium	ppm	ASTM D5185(m)	1070	1187	1163	1740
Phosphorus	ppm	ASTM D5185(m)	1150	1052	1034	1013
Zinc	ppm	ASTM D5185(m)	1270	1231	1242	1266
Sulfur	ppm	ASTM D5185(m)	2060	2713	2739	2714
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2	4	4
Sodium	ppm	ASTM D5185(m)		5	6	11
Potassium	ppm	ASTM D5185(m)	>20	2	3	6

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.3	0.4	0.4
Nitration	Abs/cm	ASTM D7624*	>20	7.5	7.4	6.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.2	19.5	20.7

OIL ANALYSIS REPORT

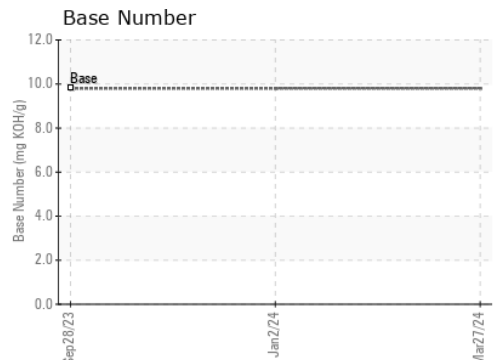
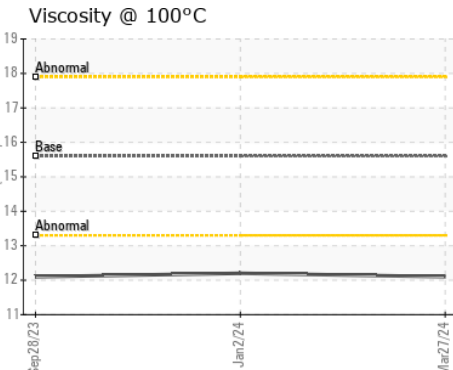
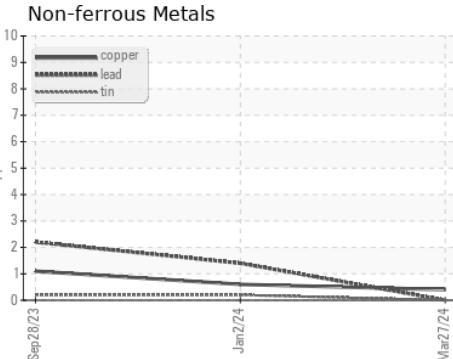
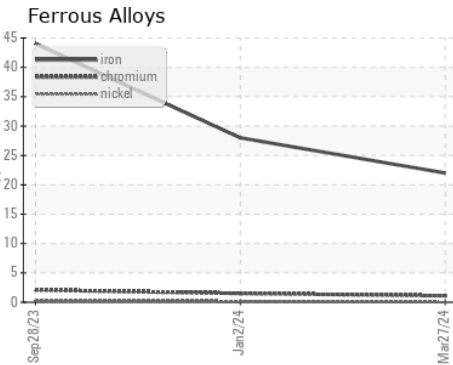


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	15.0	15.0	15.5
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	11.20	---	---

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)	118.2	87.2	86.3	86
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	12.1	12.2	12.1
Viscosity Index (VI)	Scale	ASTM D2270*	139	132	135	134

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0080339 **Received** : 05 Apr 2024
Lab Number : **02626862** **Tested** : 08 Apr 2024
Unique Number : 5759994 **Diagnosed** : 08 Apr 2024 - Wes Davis
Test Package : IND 2 (Additional Tests: KV40, VI)

Metrobus Transit
 25 Messenger Drive
 St. John's, NL
 CA A1B 0H6
 Contact: Jason Fagan
 jason.fagan@metrobus.com
 T: (709)570-2025
 F:

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.