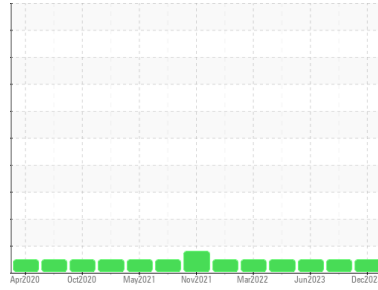


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
0753

Component
Rear Diesel Engine

Fluid
PETRO CANADA DURON HP 15W40 (24 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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		PC0080279	PC0031842	PC0018606
Sample Date	Client Info		18 Dec 2023	06 Sep 2023	30 Jun 2023
Machine Age	kms	Client Info	1020703	1006424	992937
Oil Age	kms	Client Info	13775	13487	14374
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >75	36	29	20
Chromium	ppm	ASTM D5185(m) >5	1	1	<1
Nickel	ppm	ASTM D5185(m) >4	1	<1	<1
Titanium	ppm	ASTM D5185(m) >2	0	0	0
Silver	ppm	ASTM D5185(m) >2	<1	<1	1
Aluminum	ppm	ASTM D5185(m) >15	2	2	2
Lead	ppm	ASTM D5185(m) >25	19	9	3
Copper	ppm	ASTM D5185(m) >100	6	5	3
Tin	ppm	ASTM D5185(m) >4	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	5	9	52
Barium	ppm	ASTM D5185(m) 0	0	0	0
Molybdenum	ppm	ASTM D5185(m) 60	69	62	27
Manganese	ppm	ASTM D5185(m) 0	0	<1	<1
Magnesium	ppm	ASTM D5185(m) 1010	1114	1023	426
Calcium	ppm	ASTM D5185(m) 1070	1268	1249	1877
Phosphorus	ppm	ASTM D5185(m) 1150	1125	1135	1085
Zinc	ppm	ASTM D5185(m) 1270	1391	1320	1243
Sulfur	ppm	ASTM D5185(m) 2060	2647	2611	2772
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

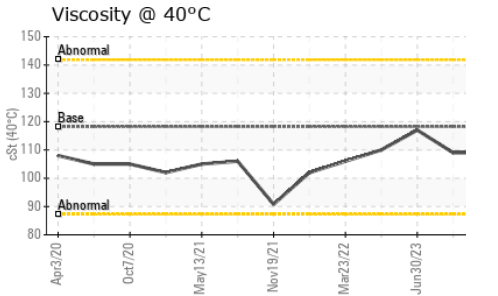
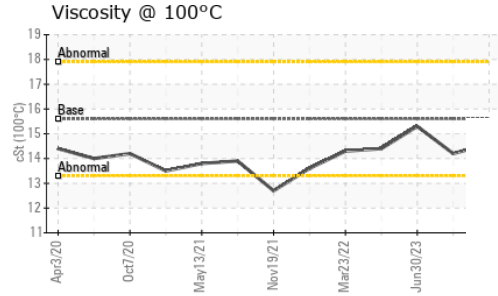
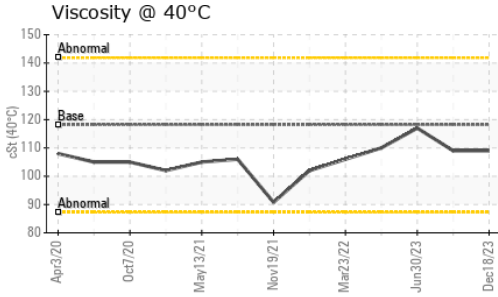
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	4	5	5
Sodium	ppm	ASTM D5185(m)	7	6	4
Potassium	ppm	ASTM D5185(m) >20	<1	1	5

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >6	1.2	1.1	0.9
Nitration	Abs/cm	ASTM D7624* >20	10.8	9.7	9.7
Sulfation	Abs./1mm	ASTM D7415* >30	25.0	23.6	24.3

OIL ANALYSIS REPORT

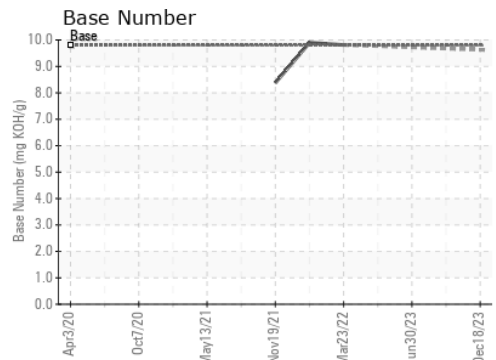
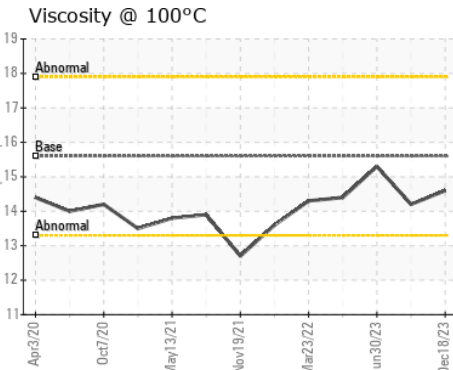
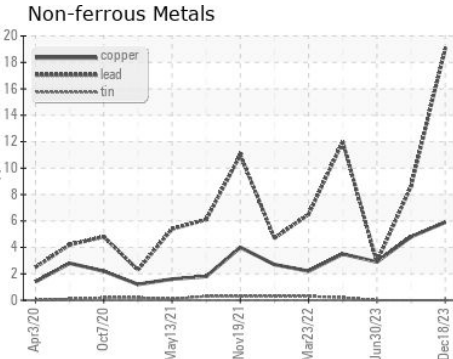
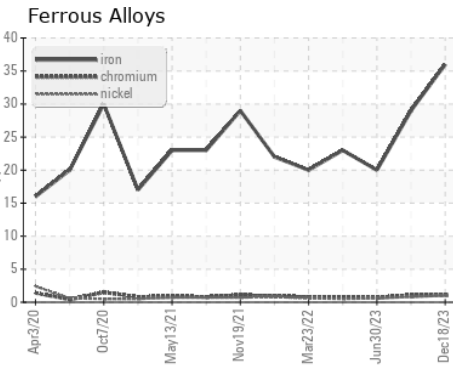


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	21.4	18.4	19.6
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	9.63	---	---

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	109	109	117
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.6	14.2	15.3
Viscosity Index (VI)	Scale	ASTM D2270*	139	137	131	136

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0080279 **Received** : 19 Dec 2023
Lab Number : **02604039** **Diagnosed** : 21 Dec 2023
Unique Number : 5697124 **Diagnostician** : Wes Davis
Test Package : IND 2 (Additional Tests: 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.

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