

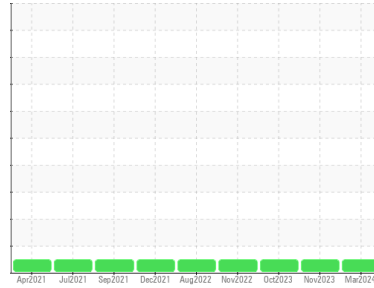
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
51
Component
Diesel Engine
Fluid
PETRO CANADA DURON UHP 5W40 (--- GAL)



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		PC0035324	PC0066786	PC0064252
Sample Date	Client Info		26 Mar 2024	01 Nov 2023	25 Oct 2023
Machine Age	hrs	Client Info	6558	4775	6298
Oil Age	hrs	Client Info	250	250	250
Oil Changed	Client Info		Not Changed	Changed	Not Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<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)	>80	36	14	22
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>30	4	3	2
Lead	ppm	ASTM D5185(m)	>30	0	0	0
Copper	ppm	ASTM D5185(m)	>150	3	1	2
Tin	ppm	ASTM D5185(m)	>5	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)	65	20	31	28
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	65	63	59	69
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1160	1118	1095	1226
Calcium	ppm	ASTM D5185(m)	820	870	814	950
Phosphorus	ppm	ASTM D5185(m)	1160	965	1021	1078
Zinc	ppm	ASTM D5185(m)	1260	1189	1191	1319
Sulfur	ppm	ASTM D5185(m)	3000	2557	2718	2971
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

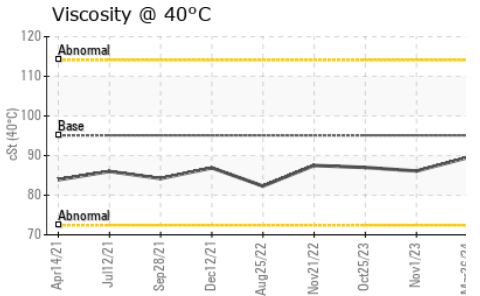
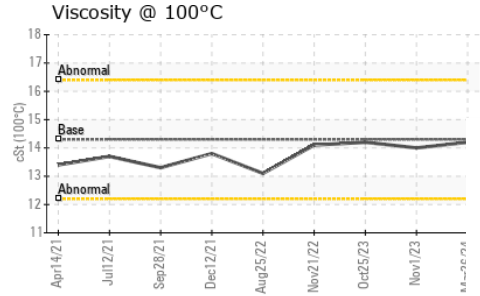
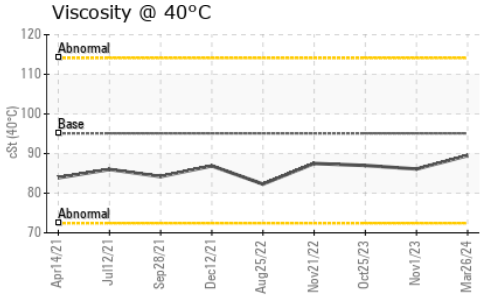
CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>20	6	4	6
Sodium	ppm	ASTM D5185(m)		5	4	6
Potassium	ppm	ASTM D5185(m)	>20	2	4	<1

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0.9	0.4	0.5
Nitration	Abs/cm	ASTM D7624*	>20	11.7	10.3	9.8
Sulfation	Abs./1mm	ASTM D7415*	>30	24.9	21.9	22.0

OIL ANALYSIS REPORT

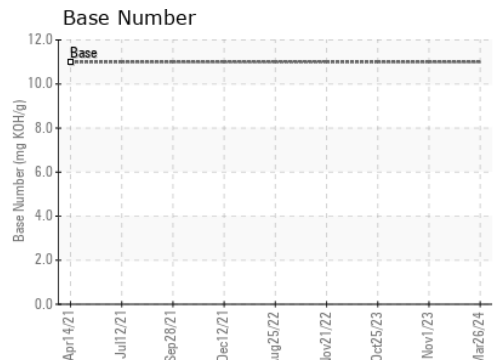
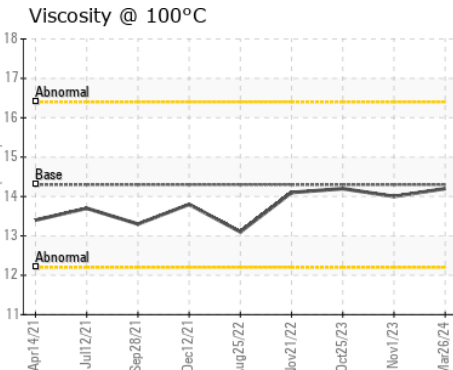
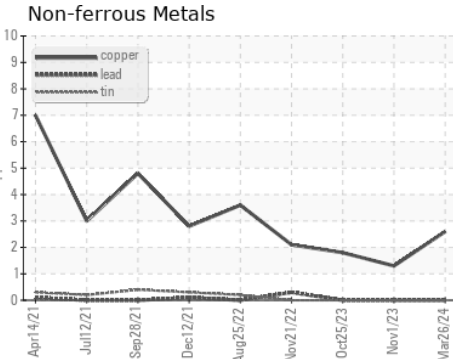
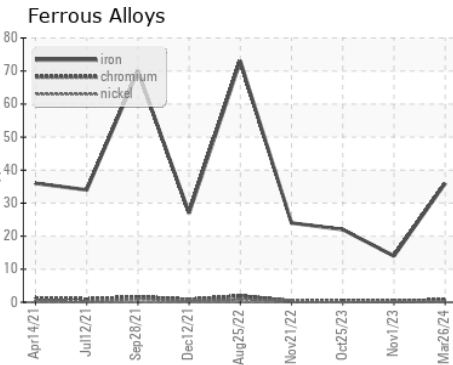


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	24.1	20.4	20.7
Base Number (BN)	mg KOH/g	ASTM D2896*	11.0	9.17	---	---

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)	95.1	89.5	86.1	87.0
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	14.2	14.0	14.2
Viscosity Index (VI)	Scale	ASTM D2270*	169	164	167	169

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0035324 **Received** : 28 Mar 2024
Lab Number : **02625153** **Tested** : 28 Mar 2024
Unique Number : 5750272 **Diagnosed** : 28 Mar 2024 - Wes Davis
Test Package : IND 2 (Additional Tests: KV40, VI)

CITY OF KIMBERLEY
 340 SPOKANE ST
 KIMBERLEY, BC
 CA V1A 2E8
 Contact: Service Manager
 ddrouin@kimberley.ca
 T: (250)427-9675
 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.