



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
901085
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC956151	WC958653	GFL0008847
Sample Date		Client Info		05 Feb 2024	18 Jan 2023	09 Jan 2021
Machine Age	mths	Client Info		0	315710	11132
Oil Age	mths	Client Info		3	0	0
Filter Age	mths	Client Info		3	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	26	13	12
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	5	7	7
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	11	5	2
Tin	ppm	ASTM D5185(m)	>15	<1	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

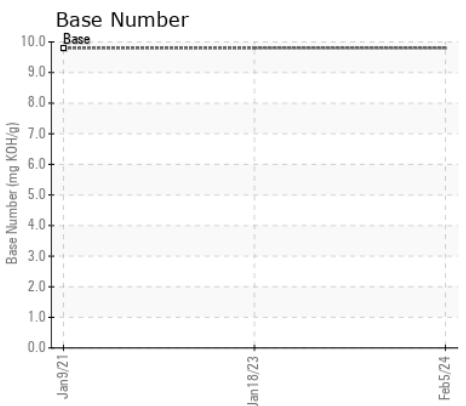
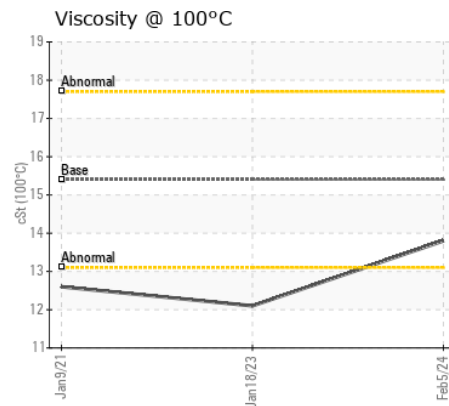
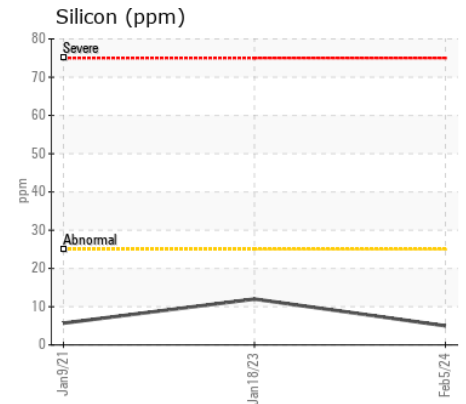
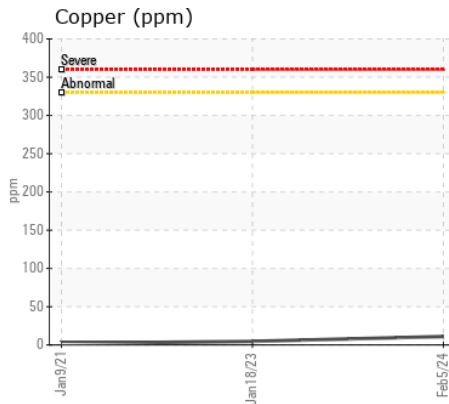
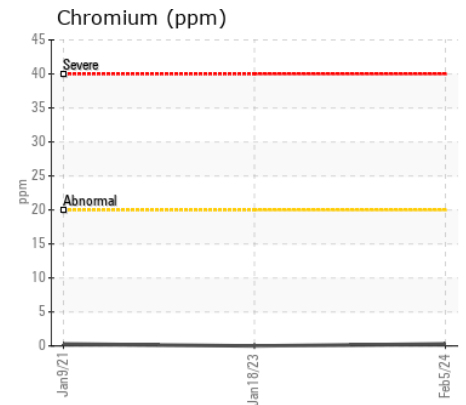
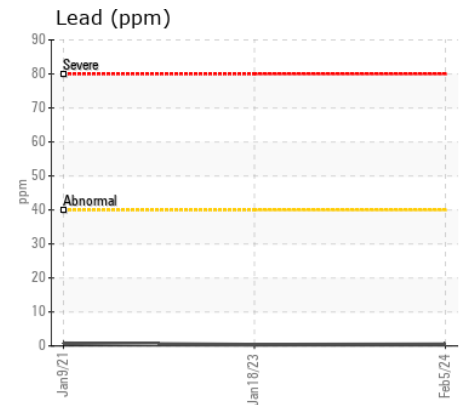
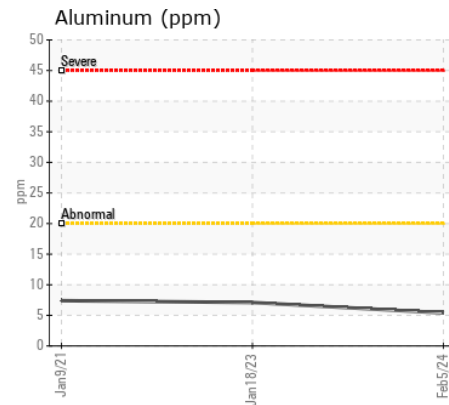
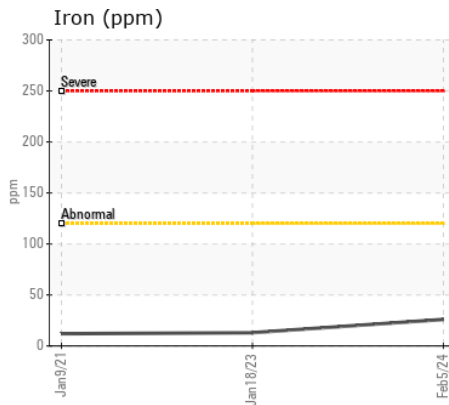
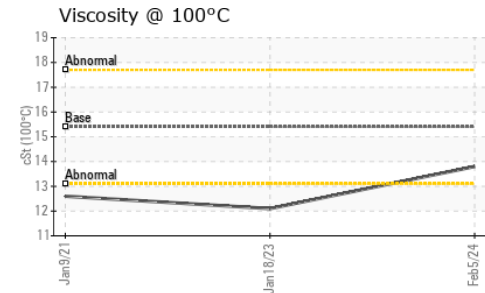
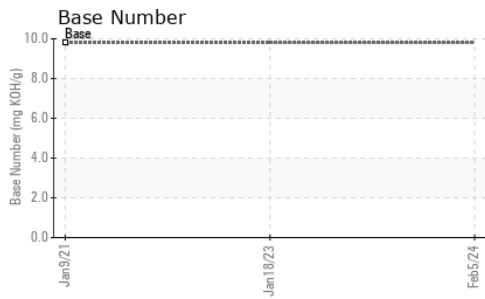
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	12	6
Potassium	ppm	ASTM D5185(m)	>20	3	1	10
Fuel		WC Method	>3.0	<1.0	<1.0	1.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>4	0.3	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	9.6	7.8	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.2	21.8	23.3
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185(m)		6	5	5
Boron	ppm	ASTM D5185(m)	0	3	180	8
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	59	109	40
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	940	660	655
Calcium	ppm	ASTM D5185(m)	1070	1094	1448	1684
Phosphorus	ppm	ASTM D5185(m)	1150	1021	812	981
Zinc	ppm	ASTM D5185(m)	1270	1166	863	1216
Sulfur	ppm	ASTM D5185(m)	2060	2822	2192	3454
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.4	15.8	19.2
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	8.80	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.8	12.1	12.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC956151
Lab Number : 02619456
Unique Number : 5736566
Test Package : MOB 2
Received : 04 Mar 2024
Tested : 05 Mar 2024
Diagnosed : 05 Mar 2024 - Kevin Marson

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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.