



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 487

Component
Diesel Engine

Fluid
PETRO CANADA DURON SAE 10W30 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0081924	PC0069261	PC0036852
Sample Date		Client Info		15 Feb 2024	26 Feb 2023	13 Jun 2021
Machine Age	kms	Client Info		1387863	0	1043426
Oil Age	kms	Client Info		92573	0	202250
Filter Age	kms	Client Info		92573	0	202250
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	SEVERE	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	35	22	62
Chromium	ppm	ASTM D5185(m)	>20	2	<1	4
Nickel	ppm	ASTM D5185(m)	>4	<1	0	1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	5	17	8
Lead	ppm	ASTM D5185(m)	>40	0	<1	2
Copper	ppm	ASTM D5185(m)	>330	1	2	3
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

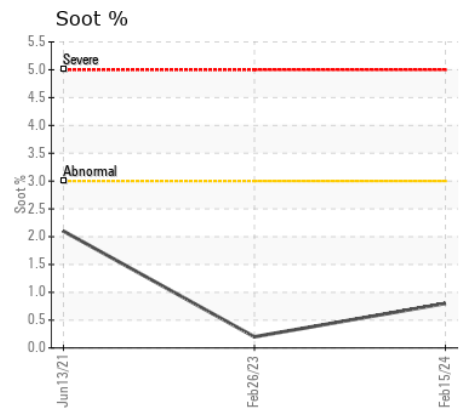
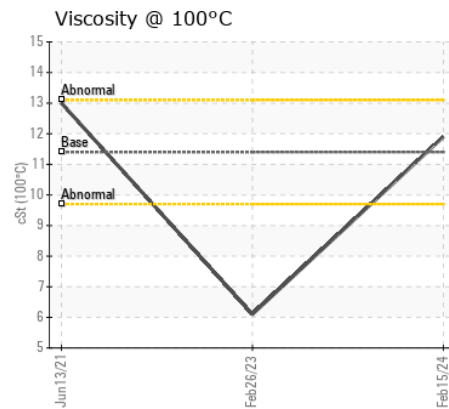
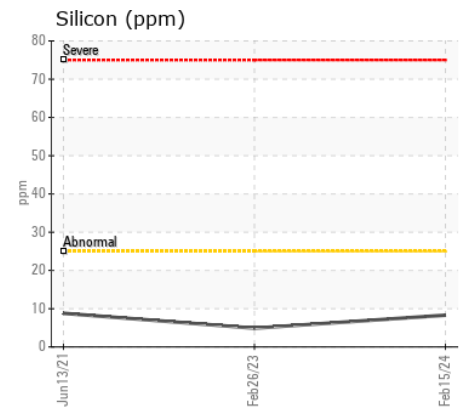
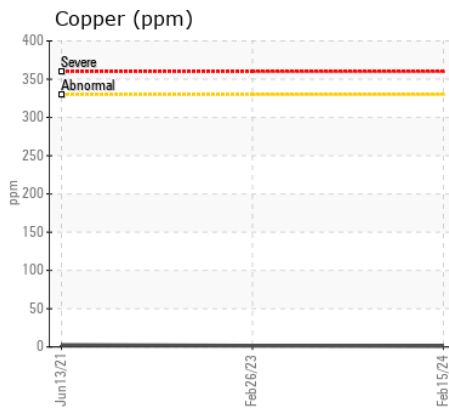
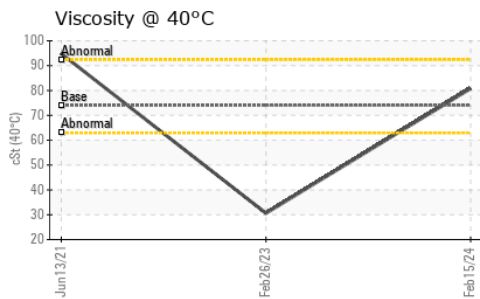
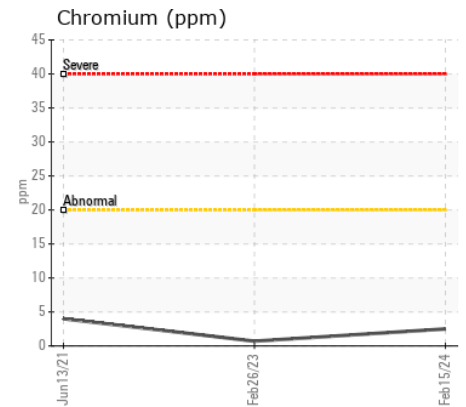
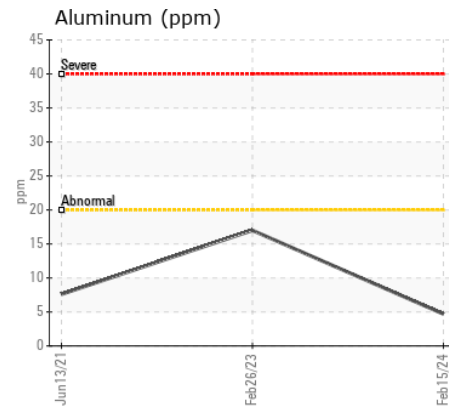
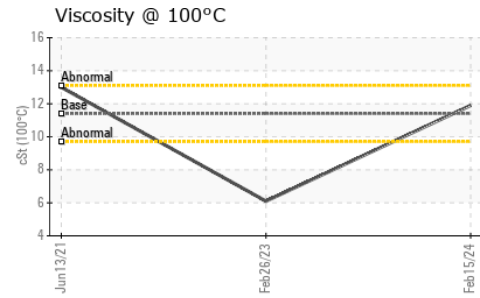
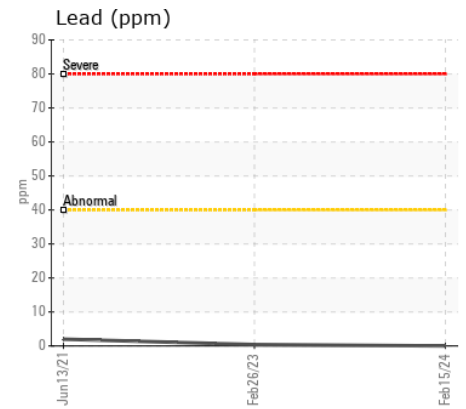
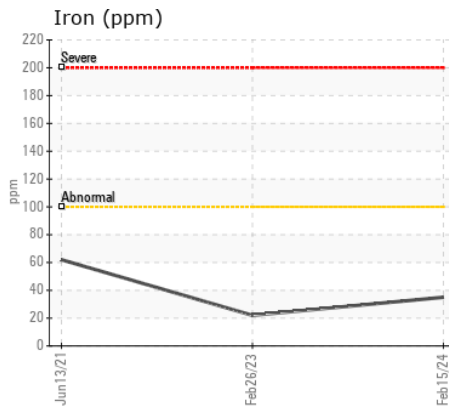
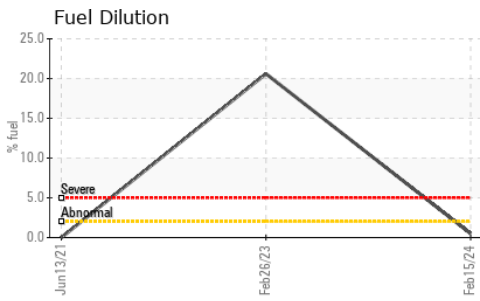
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	8	5	9
Potassium	ppm	ASTM D5185(m)	>20	2	63	7
Fuel	%	ASTM D7593*	>2.0	0.5	20.6	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.8	0.2	2.1
Nitration	Abs/cm	ASTM D7624*	>20	7.9	9.9	14.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.9	22.3	32.1
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		3	2	6
Boron	ppm	ASTM D5185(m)	1	5	4	23
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	1	56	49	70
Manganese	ppm	ASTM D5185(m)	1	0	<1	1
Magnesium	ppm	ASTM D5185(m)	10	916	750	891
Calcium	ppm	ASTM D5185(m)	2942	1038	907	1387
Phosphorus	ppm	ASTM D5185(m)	1102	992	840	1101
Zinc	ppm	ASTM D5185(m)	1351	1127	905	1399
Sulfur	ppm	ASTM D5185(m)	3903	2712	1872	2468
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.8	16.4	26.3
Visc @ 40°C	cSt	ASTM D7279(m)	74.0	80.8	30.6	94.8
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	11.9	6.1	13.0
Viscosity Index (VI)	Scale	ASTM D2270*	146	141	151	134



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0081924
Lab Number : 02617939
Unique Number : 5735049
Test Package : MOB 1 (Additional Tests: KV40, PercentFuel, VI)
Received : 26 Feb 2024
Tested : 27 Feb 2024
Diagnosed : 27 Feb 2024 - Wes Davis

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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.