



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
52863
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0935034	WC0904896	WC0879105
Sample Date		Client Info		18 May 2024	11 Feb 2024	18 Nov 2023
Machine Age	mls	Client Info		25944	254698	233100
Oil Age	mls	Client Info		25944	21599	0
Filter Age	mls	Client Info		25944	21599	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	18	18	15
Chromium	ppm	ASTM D5185(m)	>20	<1	1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	4	5	5
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	2	1	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

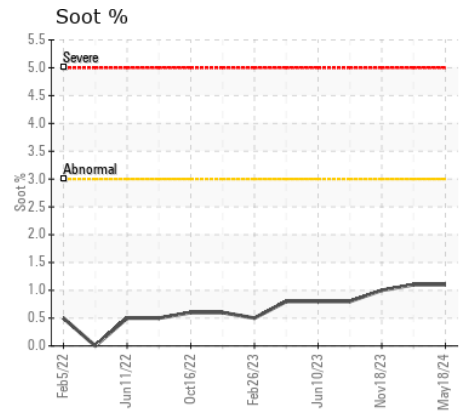
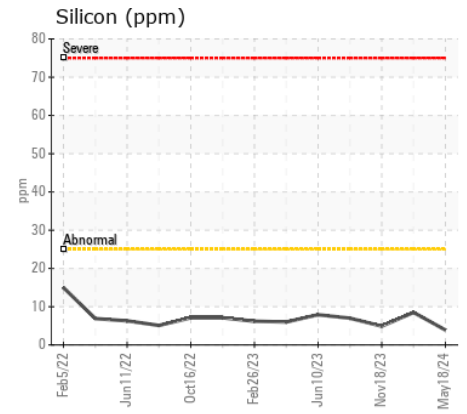
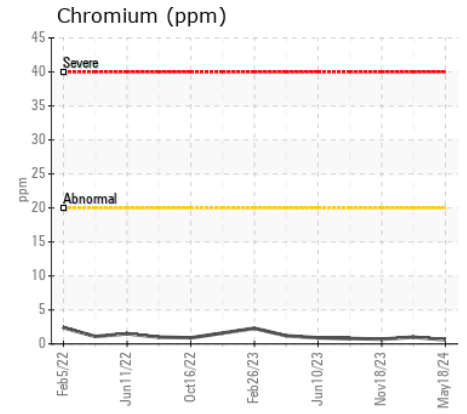
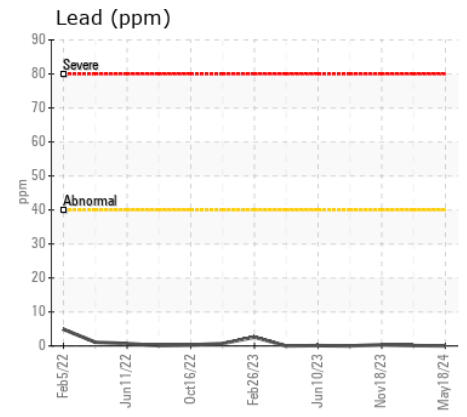
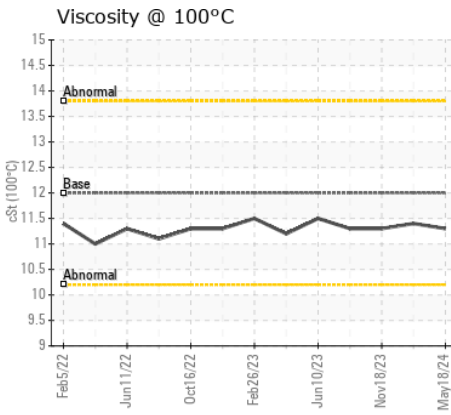
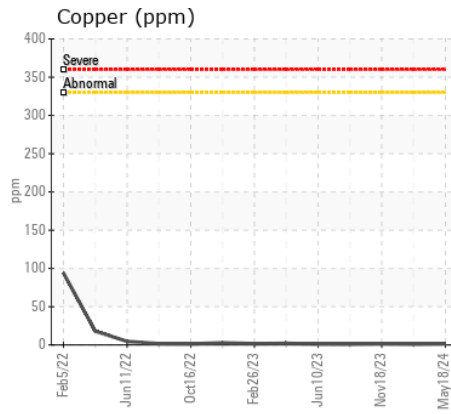
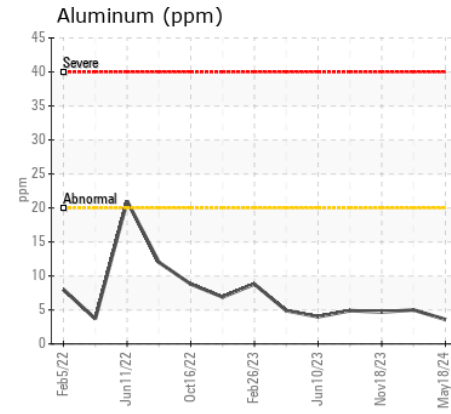
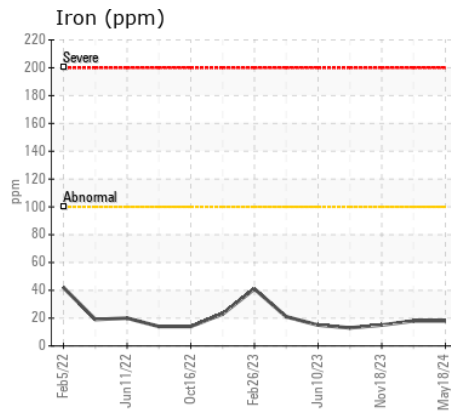
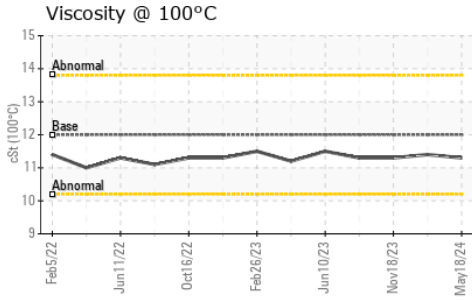
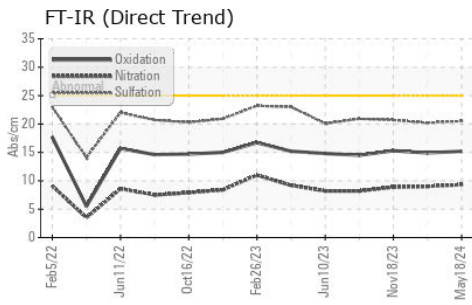
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	8	5
Potassium	ppm	ASTM D5185(m)	>20	3	5	5
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	1.1	1.1	1
Nitration	Abs/cm	ASTM D7624*	>20	9.3	9.0	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.5	20.2	20.7
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)		2	2	2
Boron	ppm	ASTM D5185(m)	2	7	4	4
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	63	60	62
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	950	989	947	973
Calcium	ppm	ASTM D5185(m)	1050	1096	1070	1095
Phosphorus	ppm	ASTM D5185(m)	995	1015	1022	1016
Zinc	ppm	ASTM D5185(m)	1180	1214	1174	1207
Sulfur	ppm	ASTM D5185(m)	2600	2580	2689	2529
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.2	14.9	15.3
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.3	11.4	11.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0935034 **Received** : 06 Jun 2024
Lab Number : 02640071 **Tested** : 06 Jun 2024
Unique Number : 5789233 **Diagnosed** : 06 Jun 2024 - Wes Davis
Test Package : MOB 1

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 LIVELY, ON
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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.