

Machine Id
473
Component
Diesel Engine
Fluid
PETRO CANADA DURON SAE 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		PC0081922	PC0064986	PC0060832
Sample Date		Client Info		05 Jun 2024	28 Jun 2023	12 Jan 2023
Machine Age	kms	Client Info		7195853	1043826	955955
Oil Age	kms	Client Info		52027	90868	133545
Filter Age	kms	Client Info		52027	90868	133545
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	81	49	53
Chromium	ppm	ASTM D5185(m)	>20	5	3	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	10	6	8
Lead	ppm	ASTM D5185(m)	>40	<1	1	14
Copper	ppm	ASTM D5185(m)	>330	10	21	70
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

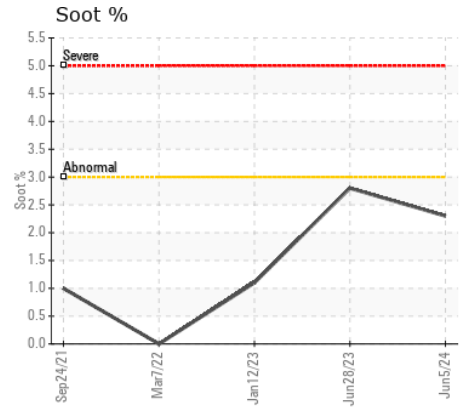
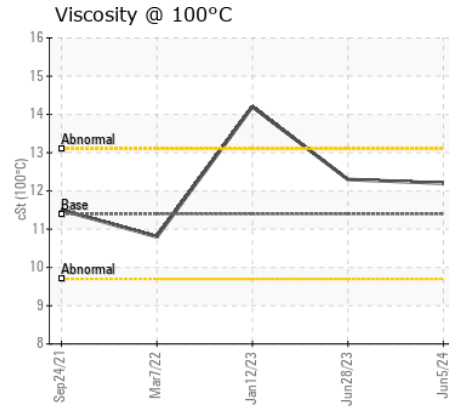
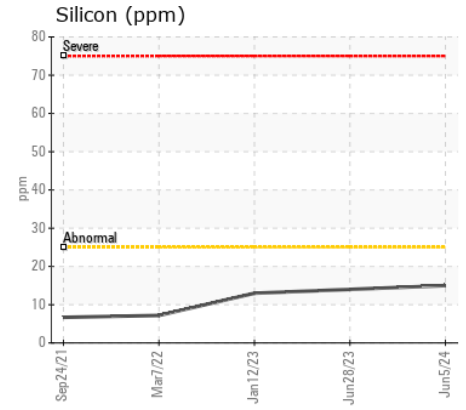
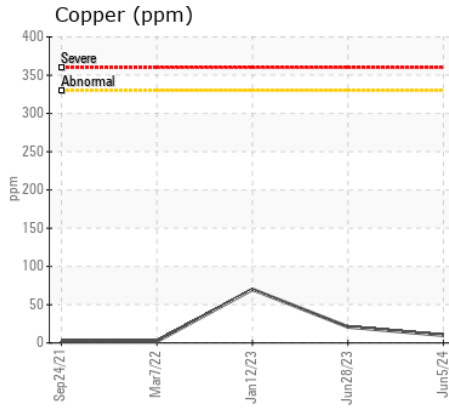
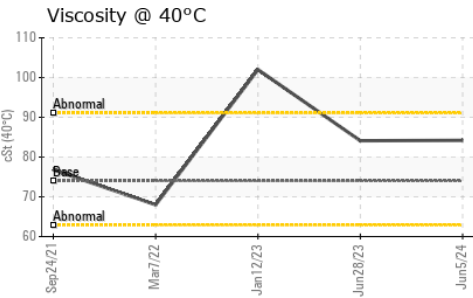
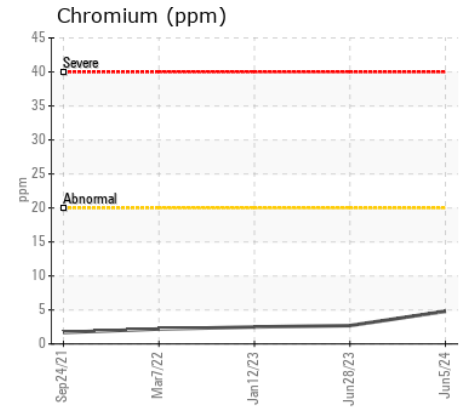
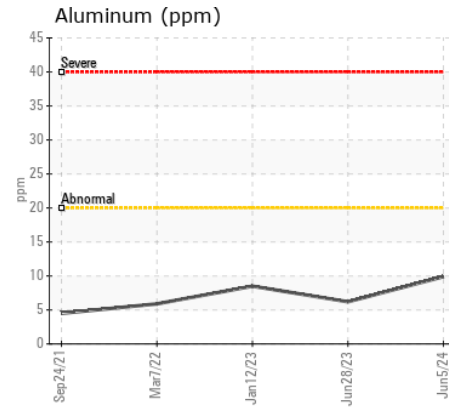
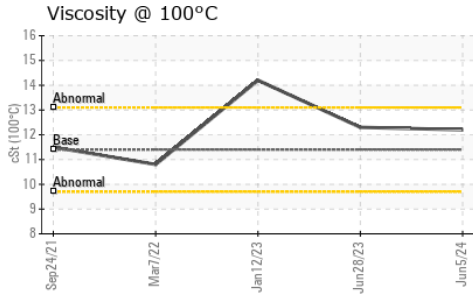
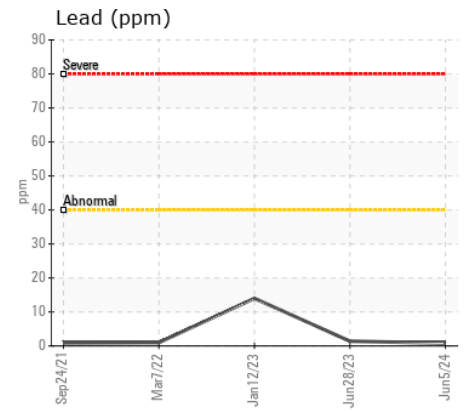
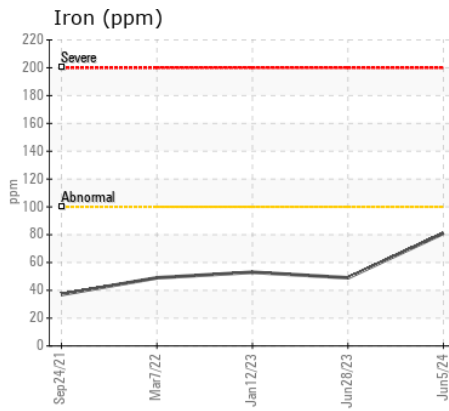
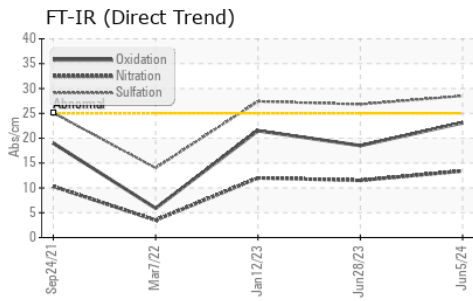
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	15	14	13
Potassium	ppm	ASTM D5185(m)	>20	2	2	3
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	2.3	2.8	1.1
Nitration	Abs/cm	ASTM D7624*	>20	13.4	11.5	12.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.5	26.8	27.4
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)		6	5	6
Boron	ppm	ASTM D5185(m)	1	7	4	7
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	1	62	65	89
Manganese	ppm	ASTM D5185(m)	1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	10	961	910	111
Calcium	ppm	ASTM D5185(m)	2942	1170	1231	2258
Phosphorus	ppm	ASTM D5185(m)	1102	1016	962	1011
Zinc	ppm	ASTM D5185(m)	1351	1211	1188	1188
Sulfur	ppm	ASTM D5185(m)	3903	2179	2233	2559
Oxidation	Abs/.1mm	ASTM D7414*	>25	23.1	18.5	21.5
Visc @ 40°C	cSt	ASTM D7279(m)	74.0	84.2	84.1	102
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	12.2	12.3	14.2
Viscosity Index (VI)	Scale	ASTM D2270*	146	140	142	142



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0081922
Lab Number : 02640441
Unique Number : 5789603
Test Package : MOB 1 (Additional Tests: KV40, VI)

Received : 07 Jun 2024
Tested : 07 Jun 2024
Diagnosed : 07 Jun 2024 - Wes Davis

MCKEVITT TRUCKING LTD.
 1200 CARRICK STREET
 THUNDER BAY, ON
 CA P7B 5G9
 Contact: Keith/Jack
 keith.corbett@mckevitt-trucking.com
 T: (807)623-2249
 F: (807)623-4563

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.