

Machine Id
458
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0036767	PC0068155	PC0060806
Sample Date		Client Info		09 Jan 2024	23 May 2023	21 Jun 2022
Machine Age	hrs	Client Info		1304224	1215363	1086404
Oil Age	hrs	Client Info		88861	128955	76863
Filter Age	hrs	Client Info		88861	128955	76863
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>65	28	43	70
Chromium	ppm	ASTM D5185(m)	>5	2	3	4
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>5	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>35	15	27	▲ 38
Lead	ppm	ASTM D5185(m)	>10	0	0	0
Copper	ppm	ASTM D5185(m)	>180	6	8	7
Tin	ppm	ASTM D5185(m)	>8	<1	1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

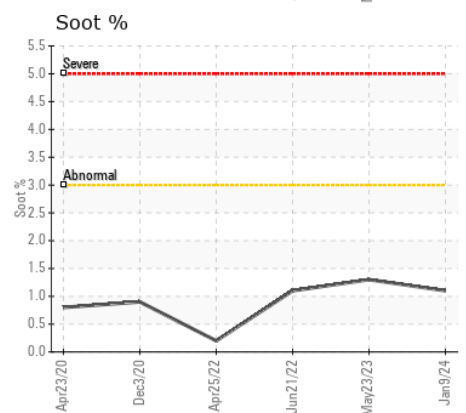
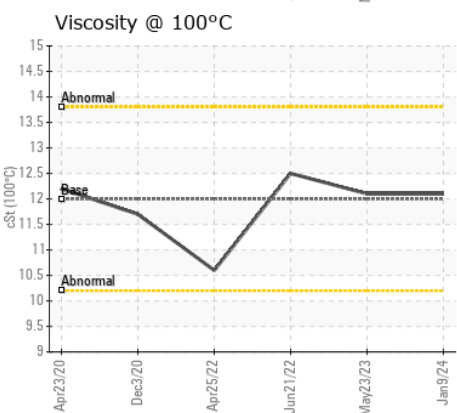
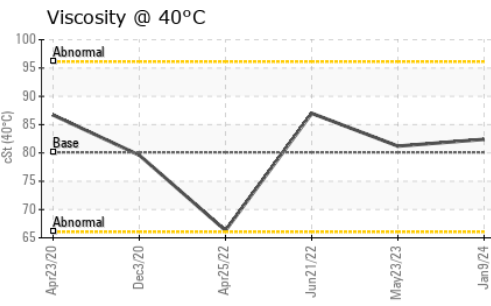
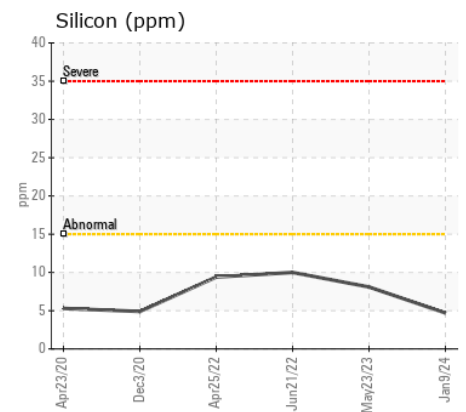
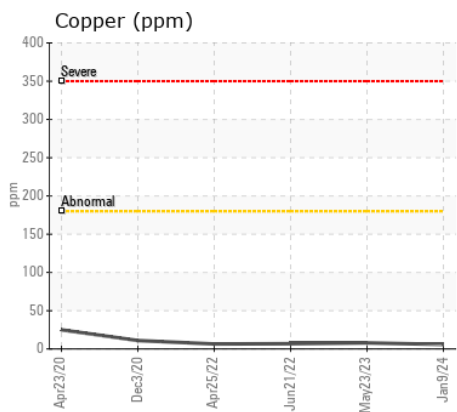
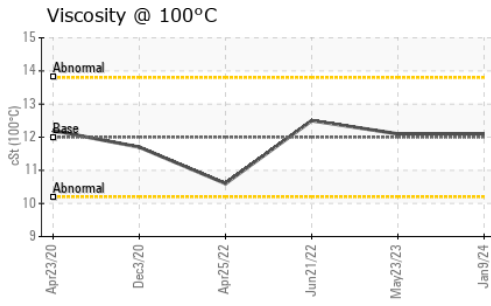
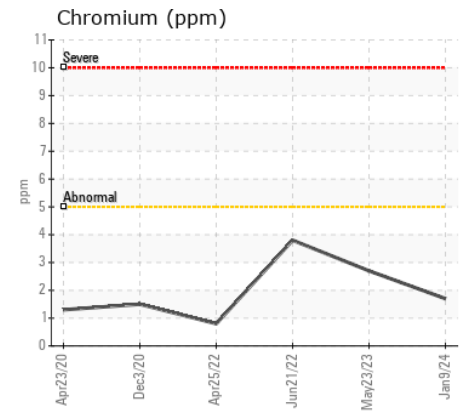
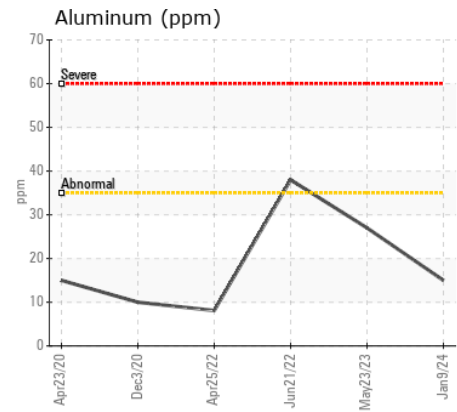
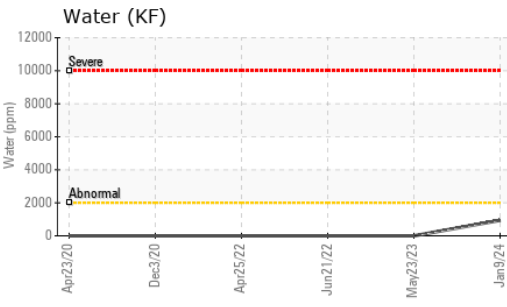
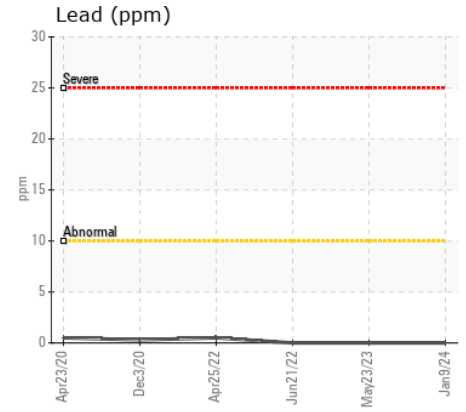
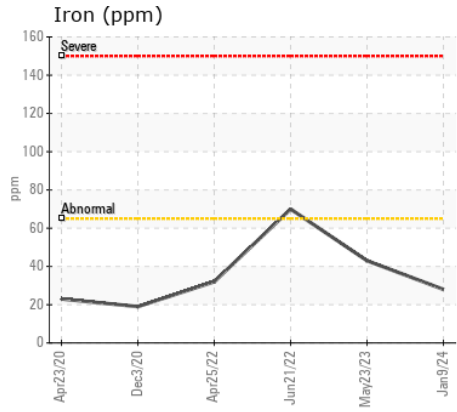
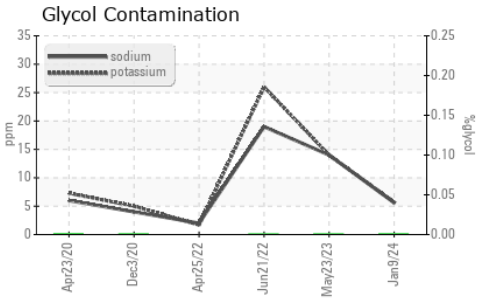
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	5	8	10
Potassium	ppm	ASTM D5185(m)	>20	6	14	26
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water	%	ASTM D6304*	>0.2	0.094	---	---
ppm Water	ppm	ASTM D6304*	>2000	942	---	---
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*	>3	1.1	1.3	1.1
Nitration	Abs/cm	ASTM D7624*	>20	10.4	11.7	12.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.6	26.0	27.8
Emulsified Water	scalar	Visual*	>0.2	.2%	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		6	14	19
Boron	ppm	ASTM D5185(m)	2	5	6	15
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	59	62	48
Manganese	ppm	ASTM D5185(m)	0	0	<1	1
Magnesium	ppm	ASTM D5185(m)	950	946	938	652
Calcium	ppm	ASTM D5185(m)	1050	1108	1258	1572
Phosphorus	ppm	ASTM D5185(m)	995	997	1059	859
Zinc	ppm	ASTM D5185(m)	1180	1166	1161	981
Sulfur	ppm	ASTM D5185(m)	2600	2423	2269	1950
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.9	21.6	25.8
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	82.4	81.2	87.0
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	12.1	12.1	12.5
Viscosity Index (VI)	Scale	ASTM D2270*	144	141	144	140



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0036767 **Received** : 17 Jan 2024
Lab Number : 02609184 **Diagnosed** : 18 Jan 2024
Unique Number : 5710270 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol, KF, KV40, VI)

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.