



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
431
 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		WC0909068	WC0833126	WC0879656
Sample Date		Client Info		19 Apr 2024	11 Jan 2024	11 Dec 2023
Machine Age	kms	Client Info		851648	845757	842435
Oil Age	kms	Client Info		6066	349	17720
Filter Age	kms	Client Info		6066	349	17720
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	31	21	16
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<1	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	6	4	4
Lead	ppm	ASTM D5185(m)	>30	0	<1	0
Copper	ppm	ASTM D5185(m)	>30	3	2	1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

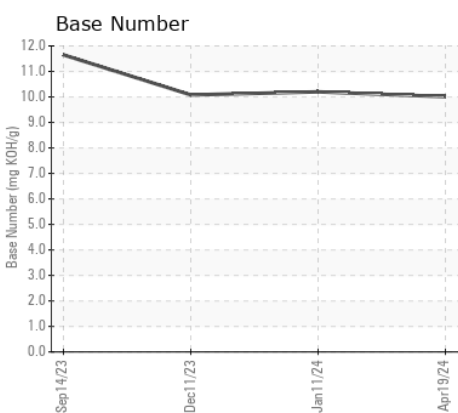
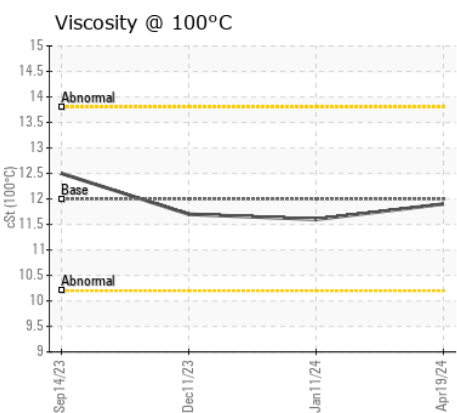
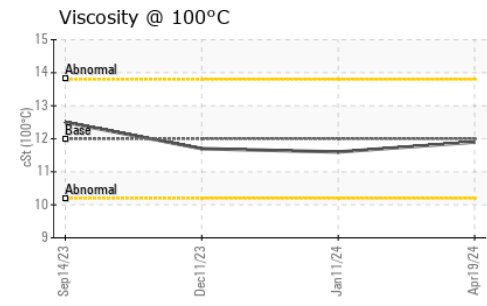
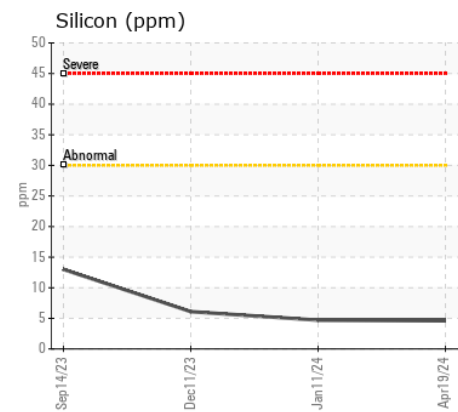
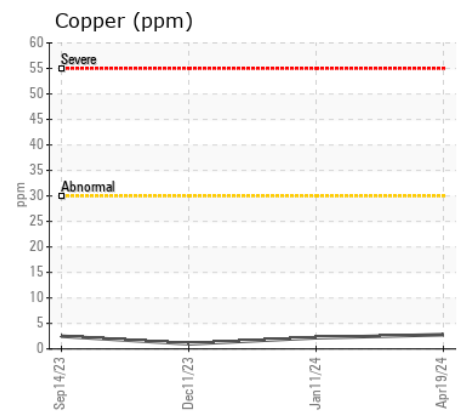
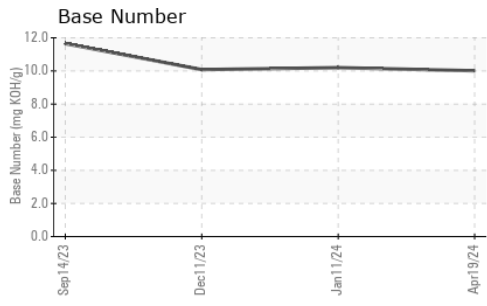
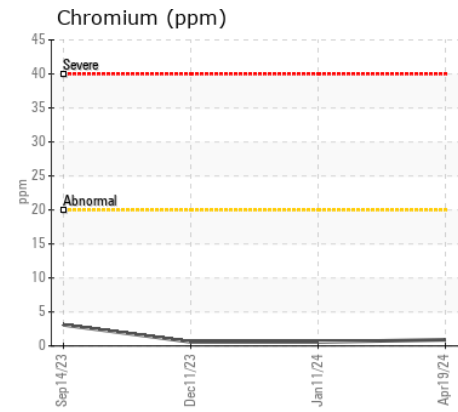
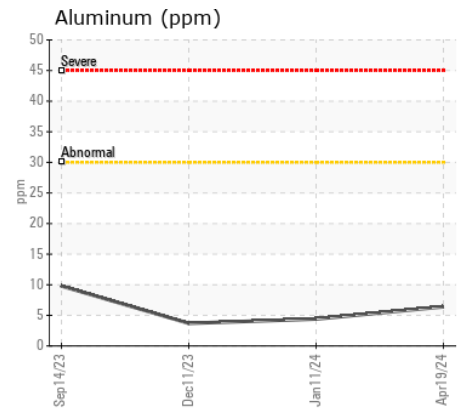
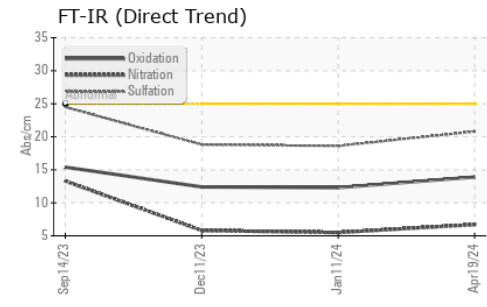
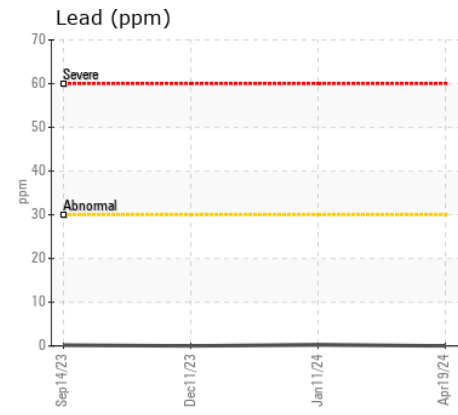
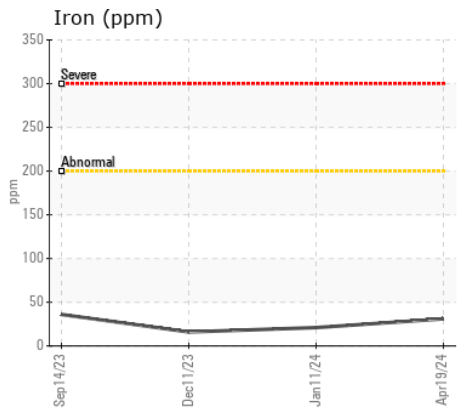
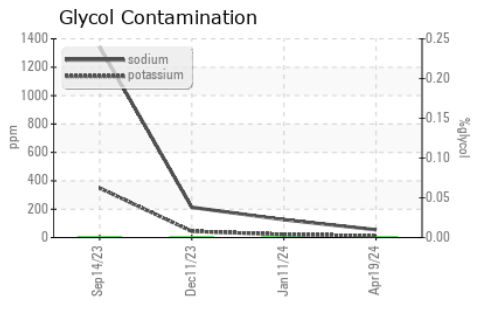
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	5	5	6
Potassium	ppm	ASTM D5185(m)	>20	12	22	44
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*	>3	1.3	0.7	0.7
Nitration	Abs/cm	ASTM D7624*	>20	6.7	5.5	5.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.8	18.6	18.8
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)		55	126	213
Boron	ppm	ASTM D5185(m)	2	7	8	8
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	59	63	69
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	950	940	918	923
Calcium	ppm	ASTM D5185(m)	1050	1061	1042	1029
Phosphorus	ppm	ASTM D5185(m)	995	979	1006	991
Zinc	ppm	ASTM D5185(m)	1180	1137	1130	1125
Sulfur	ppm	ASTM D5185(m)	2600	2545	2725	2751
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.9	12.3	12.4
Base Number (BN)	mg KOH/g	ASTM D2896*		10.01	10.20	10.08
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.9	11.6	11.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0909068 **Received** : 02 May 2024
Lab Number : 02632652 **Tested** : 03 May 2024
Unique Number : 5773805 **Diagnosed** : 03 May 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: Glycol)

Moncton - Transport Laberge
 180 Edinburg Drive, Suite 1A
 Moncton, NB
 CA E1E 2K7
 Contact: Service Manager

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.

T:
F: