



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 158
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		PC0083927	PC0081930	PC0075187
Sample Date		Client Info		28 Mar 2024	17 Oct 2023	28 Jun 2023
Machine Age	kms	Client Info		112529	87359	68462
Oil Age	kms	Client Info		25170	18897	21792
Filter Age	kms	Client Info		25170	18897	21792
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	46	33	43
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	8	6	18
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	2	3	18
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

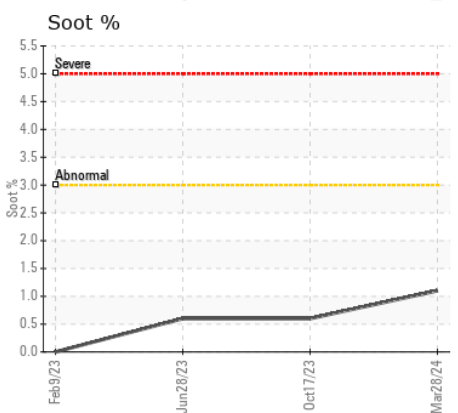
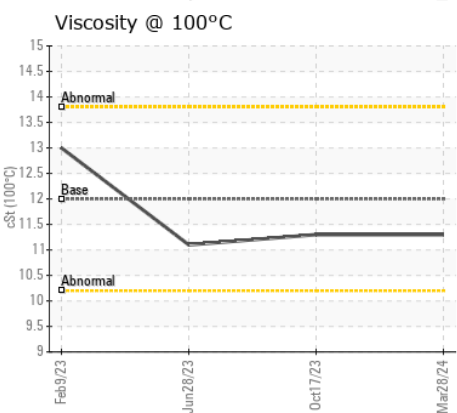
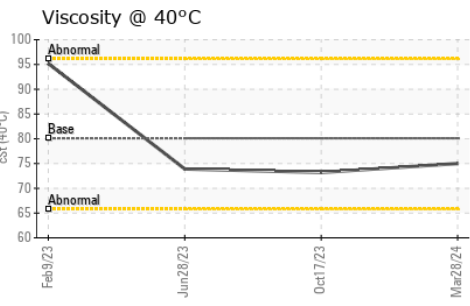
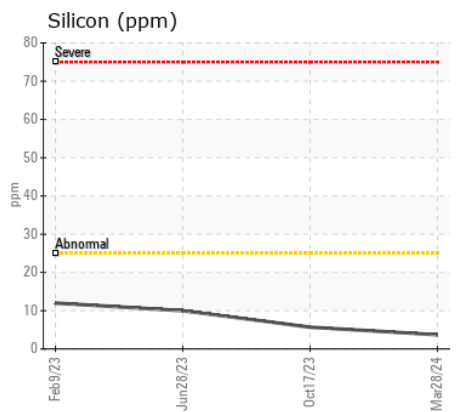
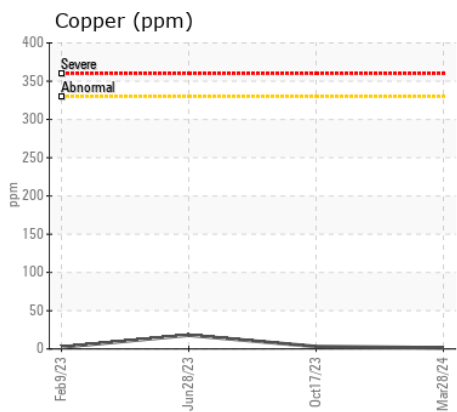
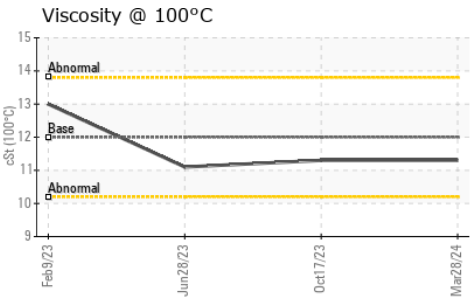
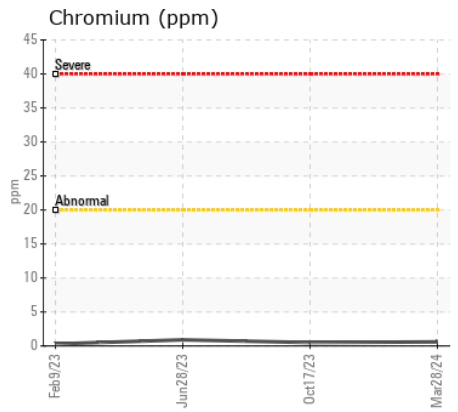
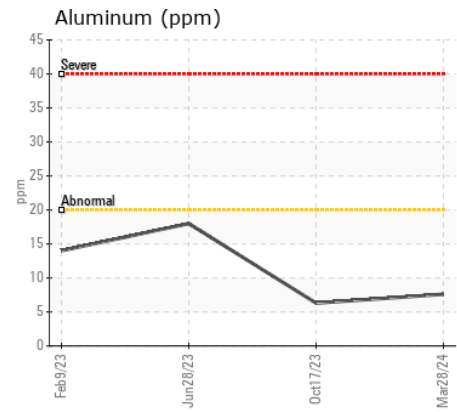
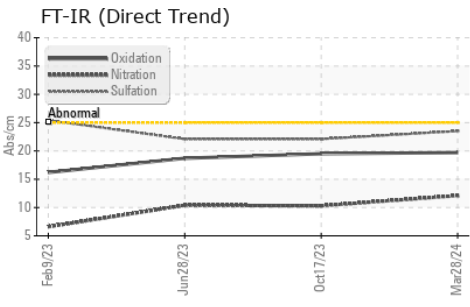
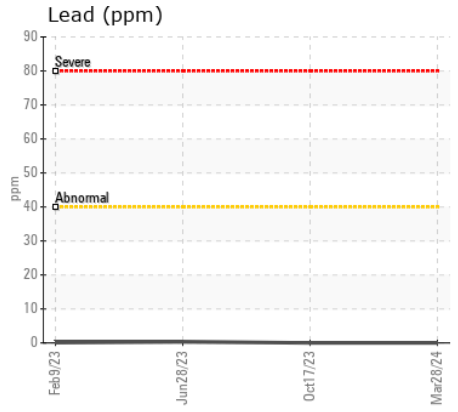
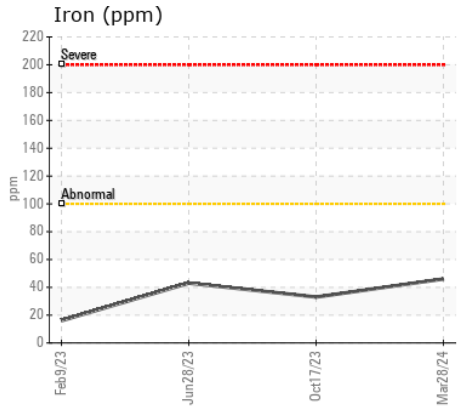
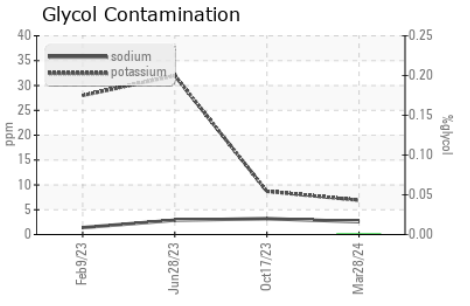
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	6	10
Potassium	ppm	ASTM D5185(m)	>20	7	9	32
Fuel		WC Method	>2.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>3	1.1	0.6	0.6
Nitration	Abs/cm	ASTM D7624*	>20	12.1	10.3	10.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.5	22.1	22.1
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	3	3
Boron	ppm	ASTM D5185(m)	2	4	2	14
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	59	61	63
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	950	915	925	911
Calcium	ppm	ASTM D5185(m)	1050	1037	1042	1030
Phosphorus	ppm	ASTM D5185(m)	995	896	892	873
Zinc	ppm	ASTM D5185(m)	1180	1130	1165	1069
Sulfur	ppm	ASTM D5185(m)	2600	2372	2454	2319
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.7	19.5	18.7
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	75.0	73.2	73.9
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.3	11.3	11.1
Viscosity Index (VI)	Scale	ASTM D2270*	144	142	146	140



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083927
Lab Number : 02626843
Unique Number : 5759975
Test Package : MOB 1 (Additional Tests: Glycol, KV40, VI)
Received : 05 Apr 2024
Tested : 05 Apr 2024
Diagnosed : 05 Apr 2024 - Wes Davis
 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.

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