



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
RAM 103
 Component
Front Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (12 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083926	PC0075193	PC0064644
Sample Date		Client Info		14 Feb 2024	23 Jun 2023	18 Jul 2022
Machine Age	kms	Client Info		324632	304505	280045
Oil Age	kms	Client Info		20127	24460	24913
Filter Age	kms	Client Info		20127	24460	24913
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)	>130	46	66	75
Chromium	ppm	ASTM D5185(m)	>10	<1	2	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	6	5	8
Lead	ppm	ASTM D5185(m)	>20	0	<1	1
Copper	ppm	ASTM D5185(m)	>125	1	2	2
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

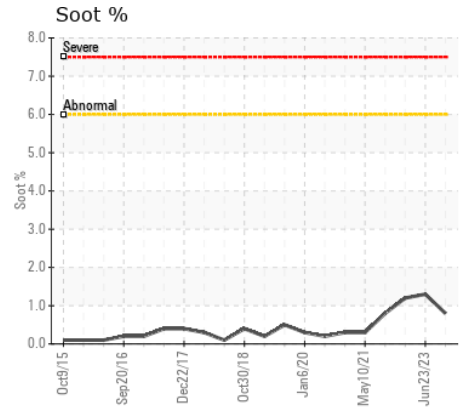
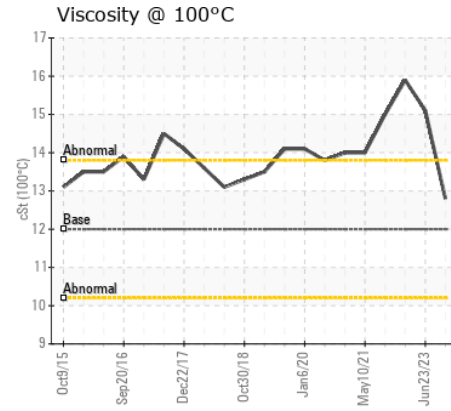
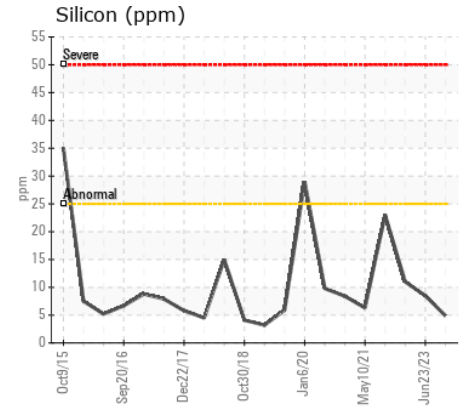
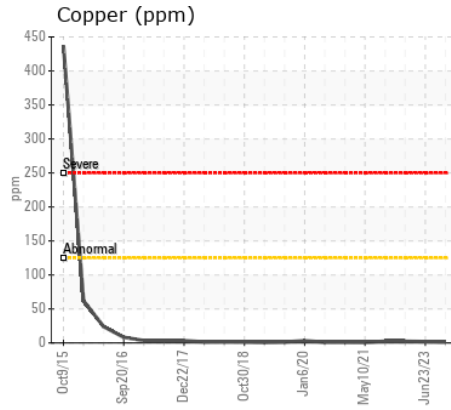
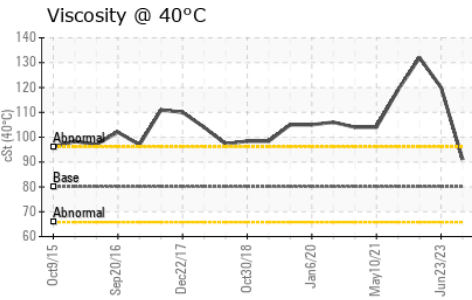
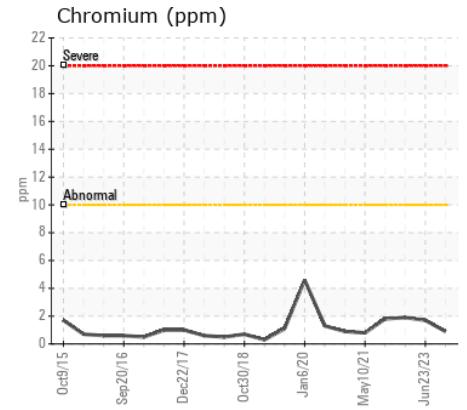
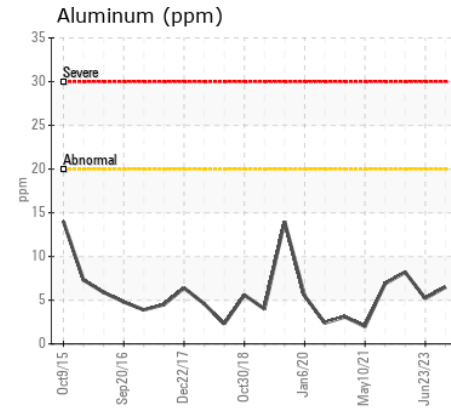
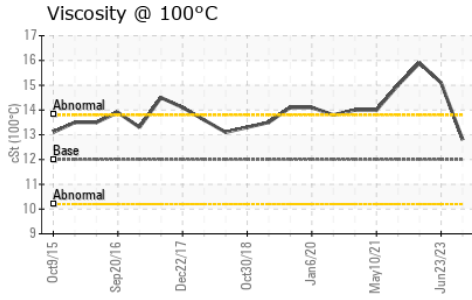
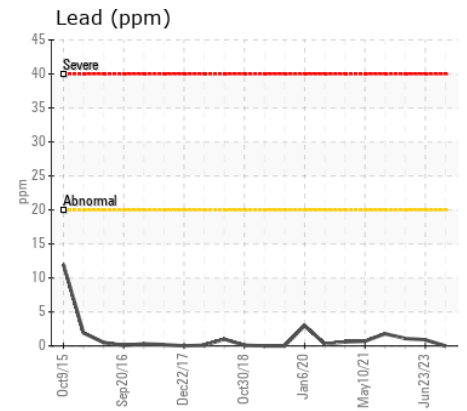
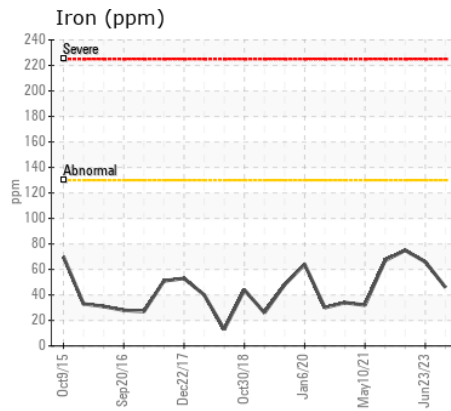
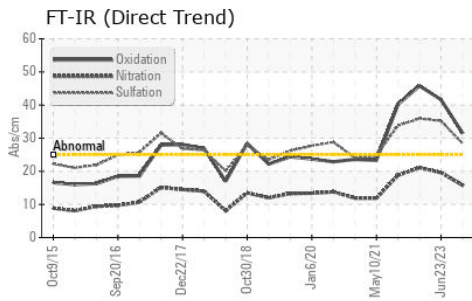
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	8	11
Potassium	ppm	ASTM D5185(m)	>20	3	2	4
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.8	1.3	1.2
Nitration	Abs/cm	ASTM D7624*	>20	15.8	19.6	21.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.4	35.2	35.9
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	6	8
Boron	ppm	ASTM D5185(m)	2	2	3	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	61	61	62
Manganese	ppm	ASTM D5185(m)	0	0	<1	1
Magnesium	ppm	ASTM D5185(m)	950	977	994	990
Calcium	ppm	ASTM D5185(m)	1050	1078	1076	1113
Phosphorus	ppm	ASTM D5185(m)	995	1009	1055	1026
Zinc	ppm	ASTM D5185(m)	1180	1210	1207	1243
Sulfur	ppm	ASTM D5185(m)	2600	2252	2221	2164
Oxidation	Abs/.1mm	ASTM D7414*	>25	31.5	41.6	45.8
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	91.0	120	132
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	12.8	15.1	15.9
Viscosity Index (VI)	Scale	ASTM D2270*	144	138	130	126



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083926
Lab Number : 02626871
Unique Number : 5760003
Test Package : MOB 1 (Additional Tests: KV40, VI)
Received : 05 Apr 2024
Tested : 05 Apr 2024
Diagnosed : 08 Apr 2024 - Kevin Marson

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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.