



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PRINETH BR #17 (S/N CS901279)
 Component
Front Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (32 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0069572	PC0043827	PC0029997
Sample Date		Client Info		03 May 2023	10 May 2022	01 Jun 2021
Machine Age	hrs	Client Info		4618	4030	3401
Oil Age	hrs	Client Info		188	180	398
Filter Age	hrs	Client Info		188	180	398
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	12	11	26
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	2
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		3	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	7	5	12
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	2
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

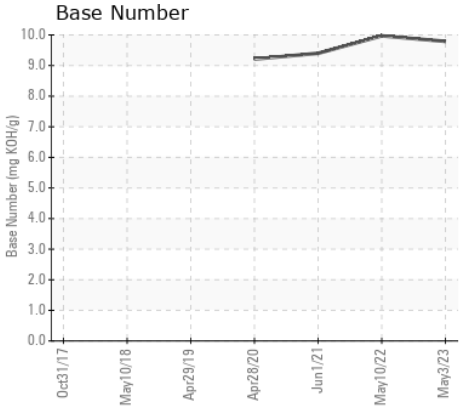
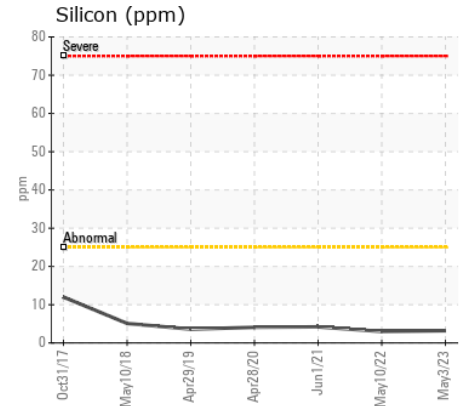
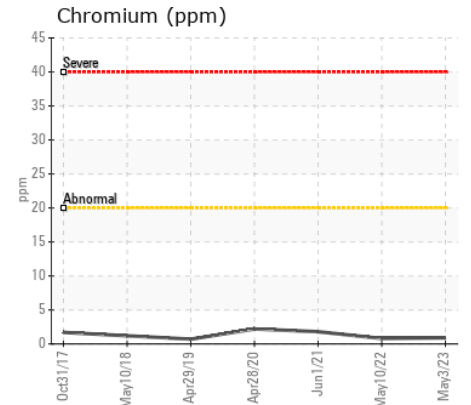
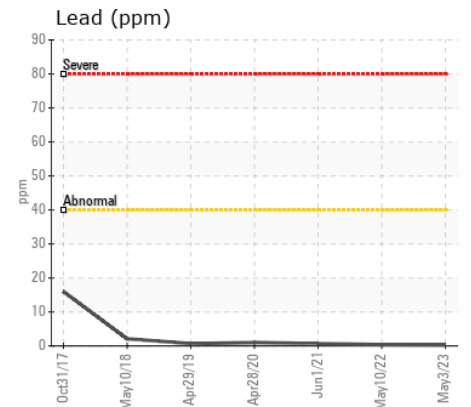
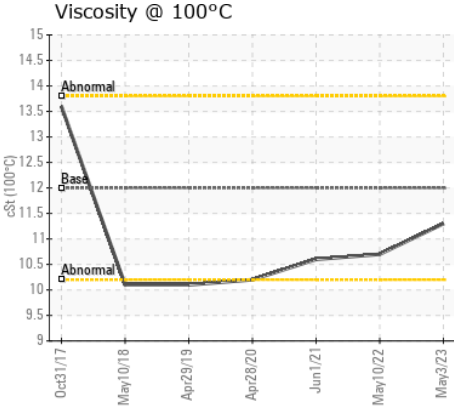
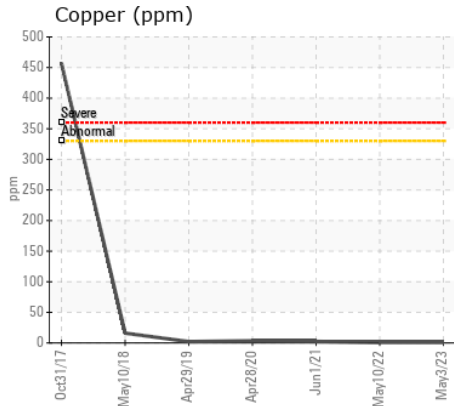
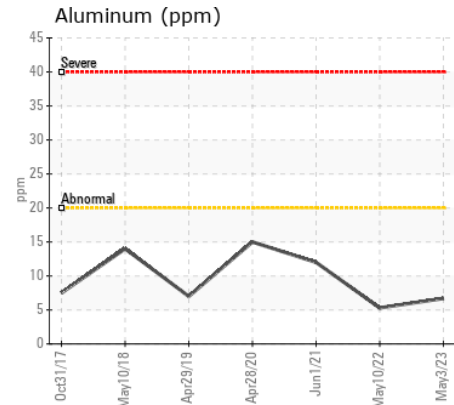
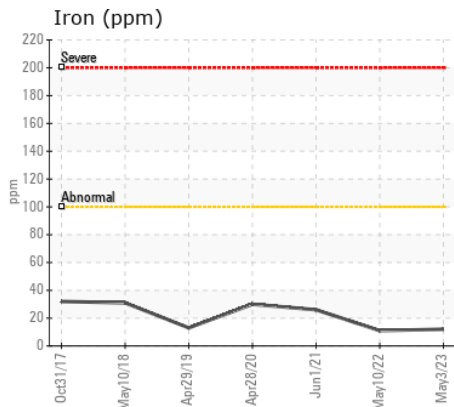
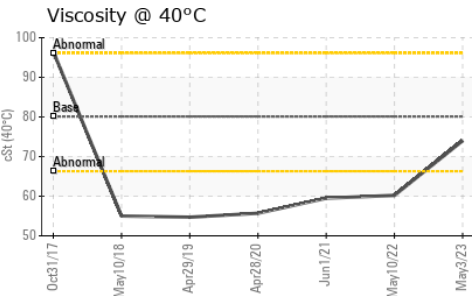
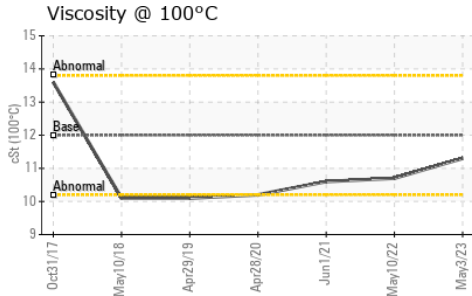
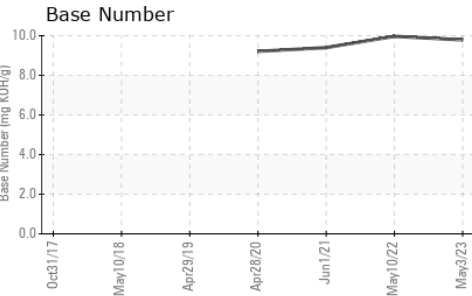
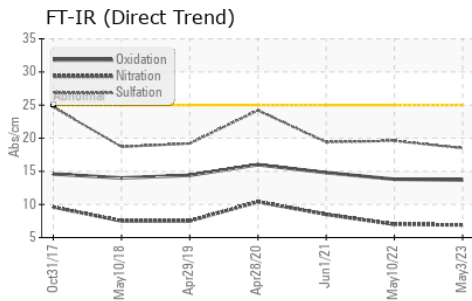
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	3	4
Potassium	ppm	ASTM D5185(m)	>20	0	1	<1
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	0.4	0.4	0.8
Nitration	Abs/cm	ASTM D7624*	>20	6.9	7.0	8.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.5	19.6	19.4
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)		1	1	2
Boron	ppm	ASTM D5185(m)	2	3	1	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	56	59	57
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	902	991	954
Calcium	ppm	ASTM D5185(m)	1050	1206	1027	1041
Phosphorus	ppm	ASTM D5185(m)	995	1086	1069	987
Zinc	ppm	ASTM D5185(m)	1180	1184	1209	1230
Sulfur	ppm	ASTM D5185(m)	2600	2567	2619	2604
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.7	13.8	14.8
Base Number (BN)	mg KOH/g	ASTM D2896*		9.79	9.97	9.40
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	74.0	60.2	59.5
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.3	10.7	10.6
Viscosity Index (VI)	Scale	ASTM D2270*	144	144	170	169



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0069572 **Received** : 10 May 2023
Lab Number : 02556404 **Tested** : 11 May 2023
Unique Number : 5577444 **Diagnosed** : 11 May 2023 - Kevin Marson
Test Package : MOB 2 (Additional Tests: KV40, VI)

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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.