



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[24488]

Machine Id

22-115

Component

Pump

Fluid

PETRO CANADA SYNDURO SHB ISO 220 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0895450	WC0842893	WC0794707
Sample Date		Client Info		25 Apr 2024	31 Aug 2023	18 Apr 2023
Machine Age	hrs	Client Info		1417	1186	990
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
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)	>500	3	3	70
Chromium	ppm	ASTM D5185(m)	>7	0	0	<1
Nickel	ppm	ASTM D5185(m)		0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	4	12	▲ 32
Lead	ppm	ASTM D5185(m)	>35	0	0	▲ 30
Copper	ppm	ASTM D5185(m)	>50	<1	<1	● 22
Tin	ppm	ASTM D5185(m)	>5	0	0	▲ 8
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

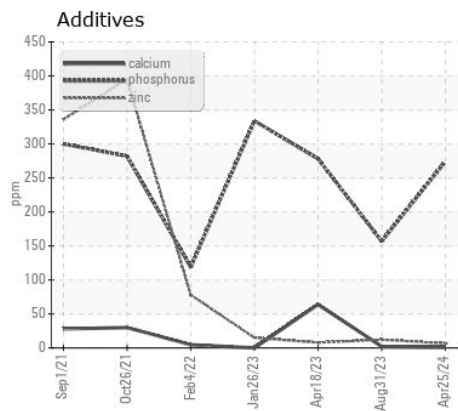
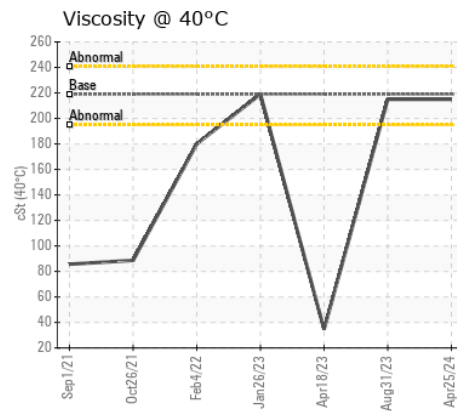
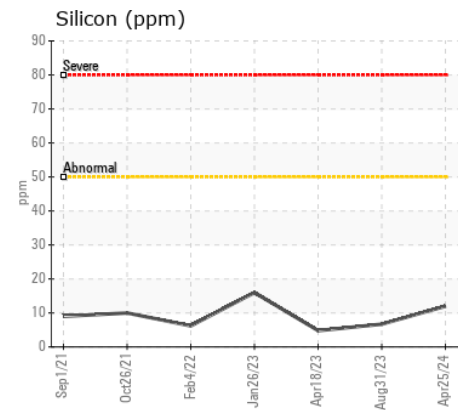
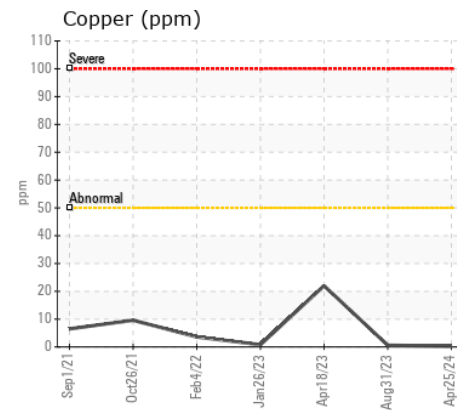
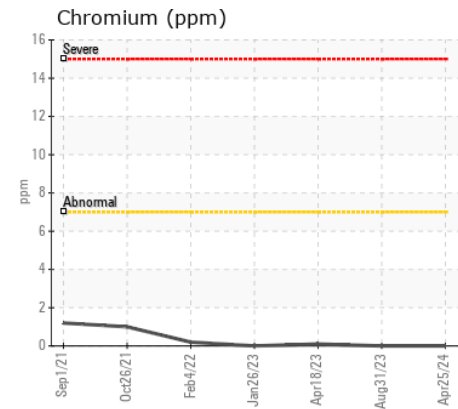
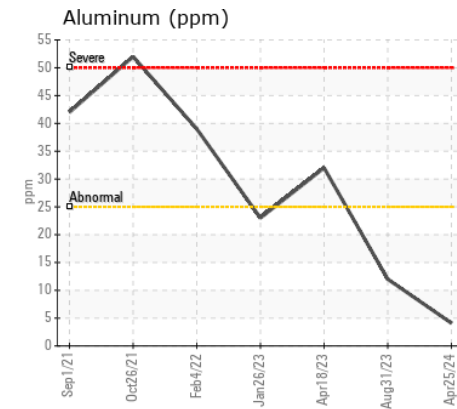
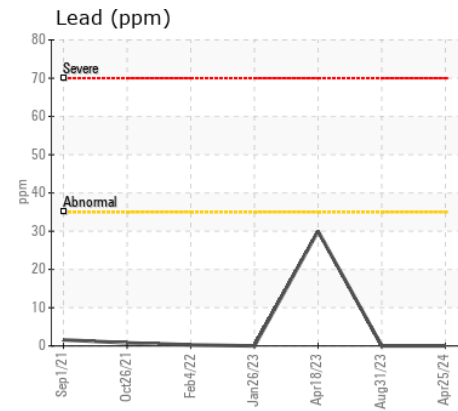
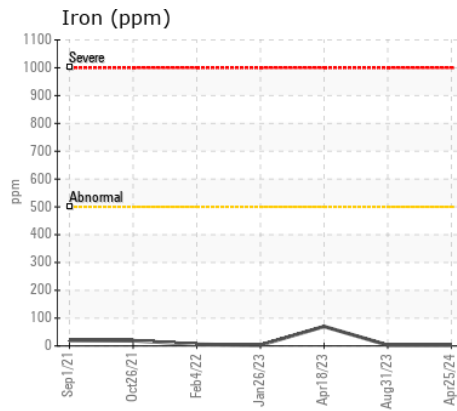
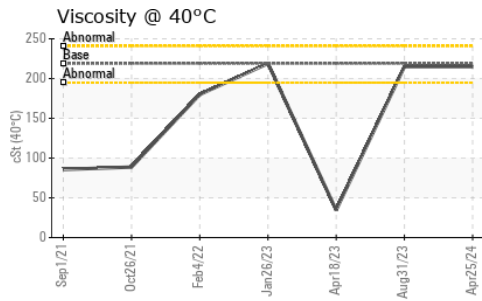
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>50	12	7	5
Potassium	ppm	ASTM D5185(m)	>20	0	<1	3
Water		WC Method	>.1	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	VLITE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		0	<1	5
Boron	ppm	ASTM D5185(m)		<1	<1	86
Barium	ppm	ASTM D5185(m)	5.0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)		0	0	1
Manganese	ppm	ASTM D5185(m)		0	0	2
Magnesium	ppm	ASTM D5185(m)	5.0	<1	<1	<1
Calcium	ppm	ASTM D5185(m)	5.0	<1	2	64
Phosphorus	ppm	ASTM D5185(m)	100	274	157	278
Zinc	ppm	ASTM D5185(m)	5.0	7	12	8
Sulfur	ppm	ASTM D5185(m)	1900	875	1296	1164
Visc @ 40°C	cSt	ASTM D7279(m)	219	215	215	▲ 34.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0895450
Lab Number : 02632374
Unique Number : 5773527
Test Package : MOB 1
Received : 30 Apr 2024
Tested : 30 Apr 2024
Diagnosed : 30 Apr 2024 - Wes Davis

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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.