



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area
[24450]
 Machine Id
21-126
 Component
Blower
 Fluid

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

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend either performing an oil change or oil filtration. We cannot recommend specific action as we have limited information with regards to reservoir capacity and/or lubricant type. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

WEAR

Iron ppm levels are abnormal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0895451	WC0842895	WC0818032
Sample Date		Client Info		23 Apr 2024	01 Sep 2023	22 Jun 2023
Machine Age	hrs	Client Info		993	700	34499
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

PQ		ASTM D8184*		4	---	---
Iron	ppm	ASTM D5185(m)	>20	▲ 20	15	11
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	<1
Lead	ppm	ASTM D5185(m)	>20	0	0	0
Copper	ppm	ASTM D5185(m)	>20	2	<1	<1
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

There is a moderate concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component.

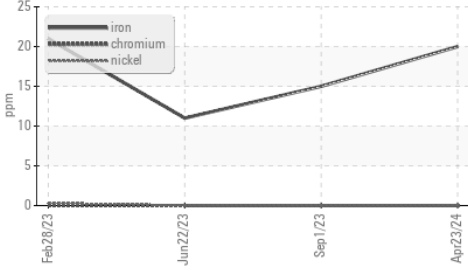
Silicon	ppm	ASTM D5185(m)	>15	▲ 28	2	9
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water		WC Method		NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	VLITE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*		NEG	NEG	NEG

FLUID CONDITION

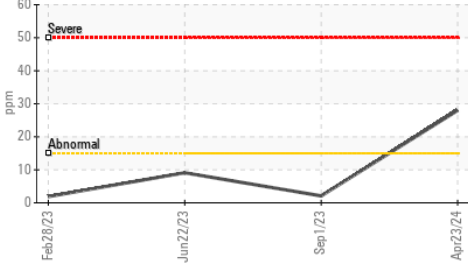
Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		2	1	<1
Boron	ppm	ASTM D5185(m)		3	2	3
Barium	ppm	ASTM D5185(m)	5.0	1	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	5.0	<1	<1	<1
Calcium	ppm	ASTM D5185(m)	5.0	8	1	2
Phosphorus	ppm	ASTM D5185(m)	100	● 374	106	373
Zinc	ppm	ASTM D5185(m)	5.0	9	4	4
Sulfur	ppm	ASTM D5185(m)	1900	● 562	2233	1106
Visc @ 40°C	cSt	ASTM D7279(m)	219	199	217	226

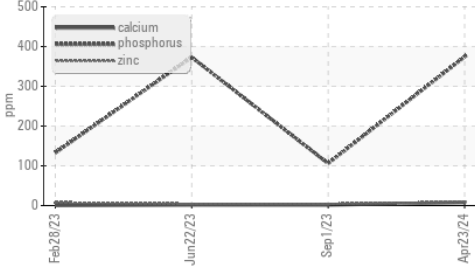
▲ Ferrous Alloys



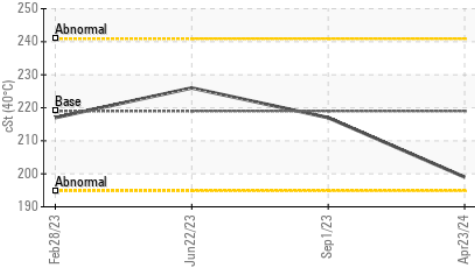
▲ Silicon (ppm)



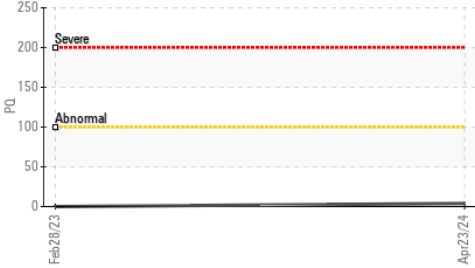
● Additives



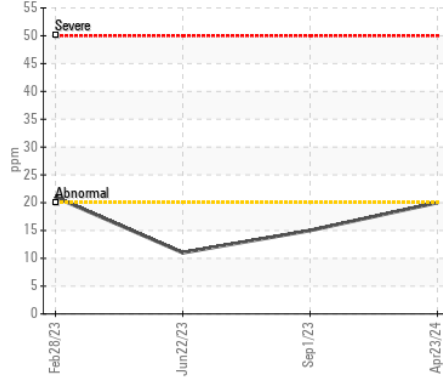
Viscosity @ 40°C



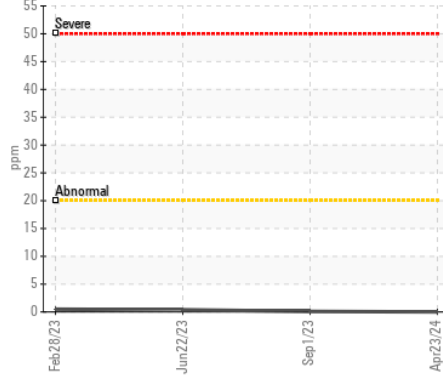
PQ



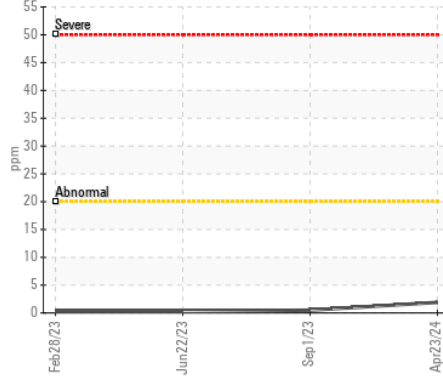
▲ Iron (ppm)



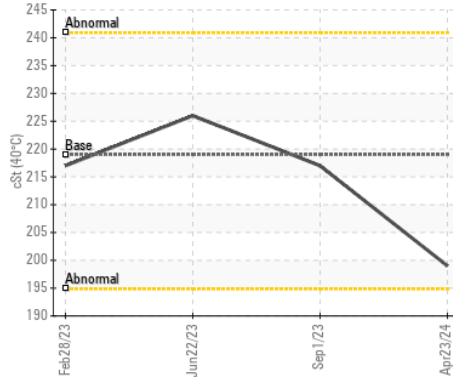
Aluminum (ppm)



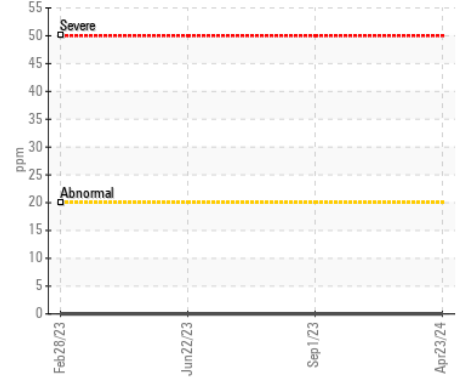
Copper (ppm)



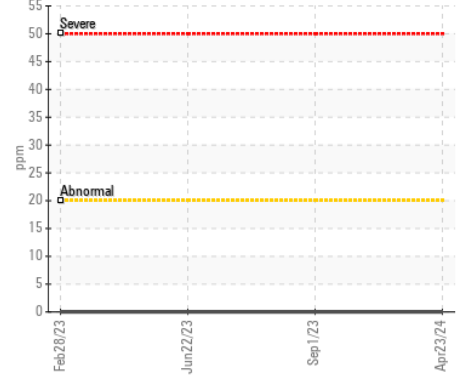
Viscosity @ 40°C



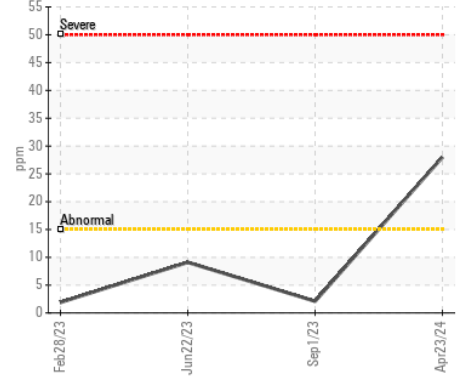
Lead (ppm)



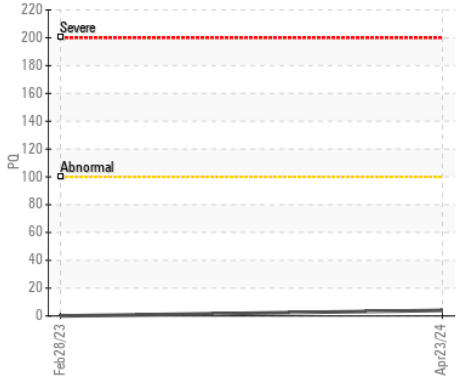
Chromium (ppm)



▲ Silicon (ppm)



PQ



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0895451 **Received** : 24 Apr 2024
Lab Number : 02631211 **Tested** : 24 Apr 2024
Unique Number : 5772364 **Diagnosed** : 24 Apr 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: PQ)

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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