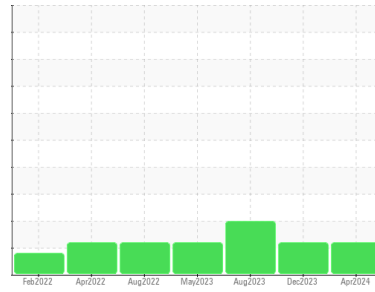




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

BL-43

Component

West Gearbox

Fluid

PETRO CANADA SYNDURO SHB ISO 220 (9 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		SBP0000910	SBP0001140	SBP0001822
Sample Date	Client Info		08 Apr 2024	12 Dec 2023	31 Aug 2023
Machine Age	Client Info		0	0	0
Oil Age	Client Info		0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		33	15	16
Iron	ppm ASTM D5185m	>200	9	3	4
Chromium	ppm ASTM D5185m	>15	0	0	0
Nickel	ppm ASTM D5185m	>15	<1	0	0
Titanium	ppm ASTM D5185m		0	0	0
Silver	ppm ASTM D5185m		0	0	0
Aluminum	ppm ASTM D5185m	>25	<1	0	0
Lead	ppm ASTM D5185m	>100	0	0	0
Copper	ppm ASTM D5185m	>200	2	0	0
Tin	ppm ASTM D5185m	>25	<1	0	0
Vanadium	ppm ASTM D5185m		0	0	0
Cadmium	ppm ASTM D5185m		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m		0	0	0
Barium	ppm ASTM D5185m	5.0	0	0	7
Molybdenum	ppm ASTM D5185m		0	0	0
Manganese	ppm ASTM D5185m		1	0	0
Magnesium	ppm ASTM D5185m	5.0	2	0	5
Calcium	ppm ASTM D5185m	5.0	7	0	0
Phosphorus	ppm ASTM D5185m	100	301	292	290
Zinc	ppm ASTM D5185m	5.0	0	0	3
Sulfur	ppm ASTM D5185m	1900	1077	675	741

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>50	15	14	9
Sodium	ppm ASTM D5185m		2	0	0
Potassium	ppm ASTM D5185m	>20	2	0	<1
Water	% ASTM D6304	>0.2	0.001	0.003	0.003
ppm Water	ppm ASTM D6304	>2000	9	30	34.0

FLUID CLEANLINESS

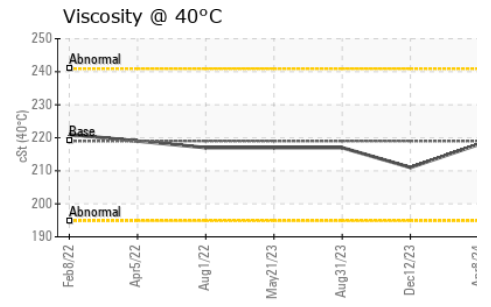
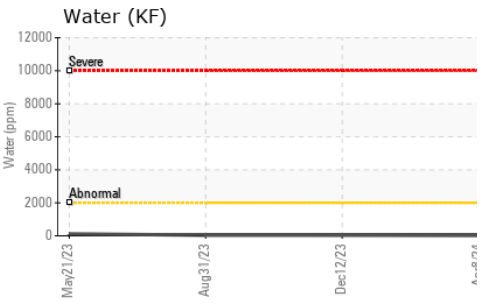
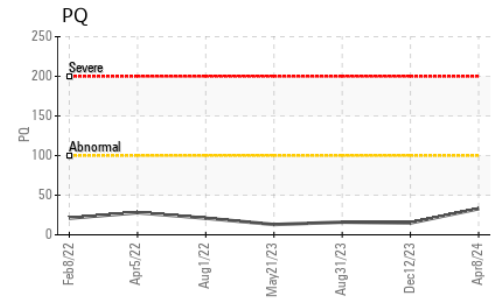
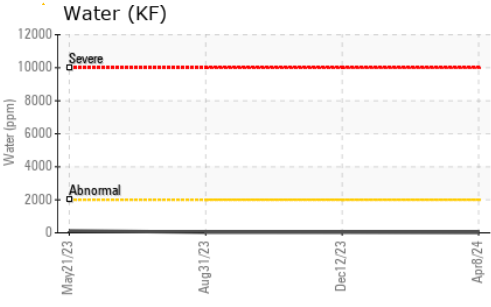
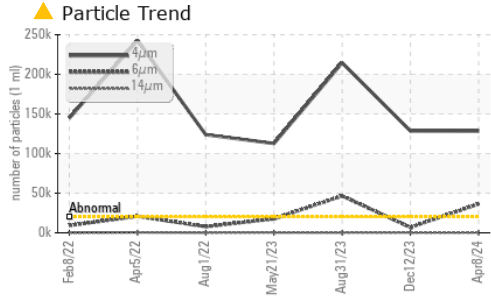
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 128411	▲ 128544	▲ 214510
Particles >6µm	ASTM D7647	>5000	▲ 36335	● 6882	▲ 46559
Particles >14µm	ASTM D7647	>640	192	154	▲ 282
Particles >21µm	ASTM D7647	>160	40	53	▲ 50
Particles >38µm	ASTM D7647	>40	2	0	3
Particles >71µm	ASTM D7647	>10	0	0	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 24/22/15	▲ 24/20/14	▲ 25/23/15

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	0.3	0.95	0.84	0.81



OIL ANALYSIS REPORT

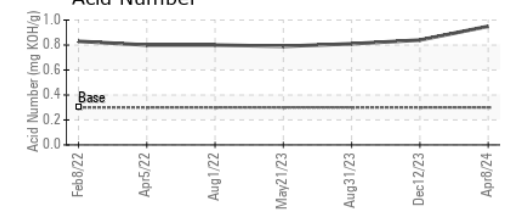
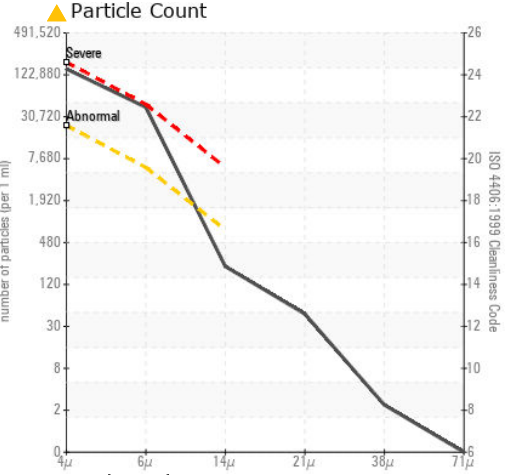
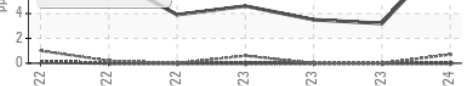


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 219	218	211	217

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0000910 **Received** : 16 Apr 2024
Lab Number : 06151075 **Tested** : 18 Apr 2024
Unique Number : 10981153 **Diagnosed** : 18 Apr 2024 - Wes Davis
Test Package : PLANT

MONOLITH
 27077 SW 42ND ST
 HALLAM, NE
 US 68368
 Contact: ALANA WALLACE
 alana.wallace@monolith-corp.com
 T:
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)