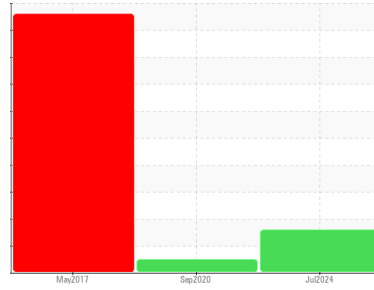


OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
158620

Component
Gearbox

Fluid
PETRO CANADA SYNDURO SHB ISO 460 (--- GAL)

DIAGNOSIS

Recommendation

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. 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. 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

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

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			PC0080430	PC0036179	CB0025699
Sample Date	Client Info			04 Jul 2024	10 Sep 2020	02 May 2017
Machine Age	days	Client Info		0	0	0
Oil Age	days	Client Info		0	100	0
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	NEG	NEG	NEG

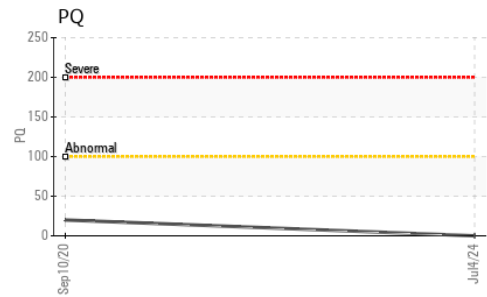
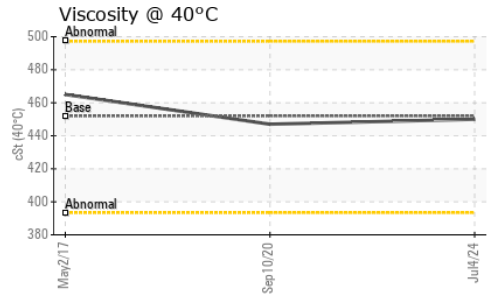
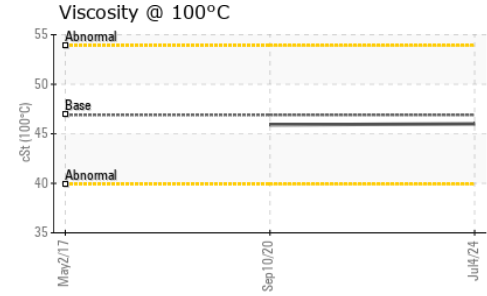
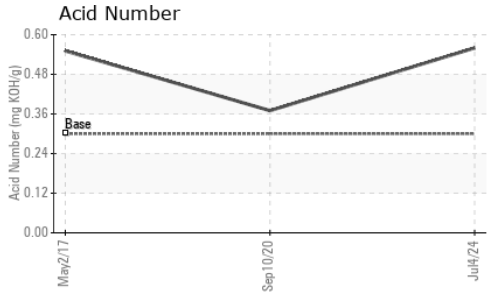
WEAR METALS		method	limit/base	current	history1	history2
PQ	ASTM D8184*			0	20	---
Iron	ppm	ASTM D5185(m)	>200	2	4	4
Chromium	ppm	ASTM D5185(m)	>15	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>15	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	0	0
Lead	ppm	ASTM D5185(m)	>100	2	2	<1
Copper	ppm	ASTM D5185(m)	>200	93	77	24
Tin	ppm	ASTM D5185(m)	>25	3	7	3
Antimony	ppm	ASTM D5185(m)	>5	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	<1	<1
Barium	ppm	ASTM D5185(m)	5.0	0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	<1
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	5.0	0	0	0
Calcium	ppm	ASTM D5185(m)	5.0	0	<1	0
Phosphorus	ppm	ASTM D5185(m)	100	49	80	445
Zinc	ppm	ASTM D5185(m)	5.0	5	7	3
Sulfur	ppm	ASTM D5185(m)	1900	2000	1895	97
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	3	4	19
Sodium	ppm	ASTM D5185(m)		0	<1	0
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.3	0.56	0.37	0.551

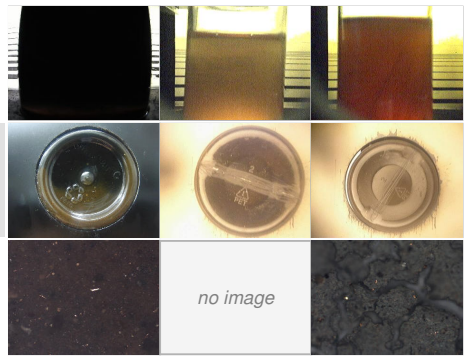
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	LIGHT	VLITE NONE
Yellow Metal	scalar	Visual*	NONE	NONE	VLITE ▲ LIGHT
Precipitate	scalar	Visual*	NONE	NONE	NONE NONE
Silt	scalar	Visual*	NONE	NONE	VLITE LIGHT
Debris	scalar	Visual*	NONE	NONE	VLITE ▲ LIGHT
Sand/Dirt	scalar	Visual*	NONE	▲ MODER	NONE NONE
Appearance	scalar	Visual*	NORML	NORML	NORML NORML
Odor	scalar	Visual*	NORML	NORML	NORML NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	.2% NEG
Free Water	scalar	Visual*		NEG	NEG NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	452	450	447 465
Visc @ 100°C	cSt	ASTM D7279(m)	46.9	46.0	45.9 ---
Viscosity Index (VI)	Scale	ASTM D2270*	162	159	159 ---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
PrtFilter				no image	



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0080430
Lab Number : **02647210**
Unique Number : 5812762
Test Package : IND 2 (Additional Tests: Bottom, BottomAnalysis, FILTERPATCH, KV100, TSP, Water, W) **Received** : 10 Jul 2024
Tested : 15 Jul 2024
Diagnosed : 15 Jul 2024 - Kevin Marson

Dryden Fibre
 Box 3001, 1 Duke Street
 Dryden, ON
 CA P8N 2Z7
 Contact: Adebukola Adekanye
 aadekanye@drydenfibre.ca
 T: (807)223-9950
 F: (807)223-9176

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.