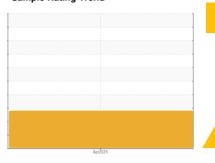


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id

RV-171
Component
Gearbox

PETRO CANADA SYNDURO SHB ISO 220 (4 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

🔔 Wear

Gear wear is indicated.

Contamination

There is a high amount of particulates present in the oil.

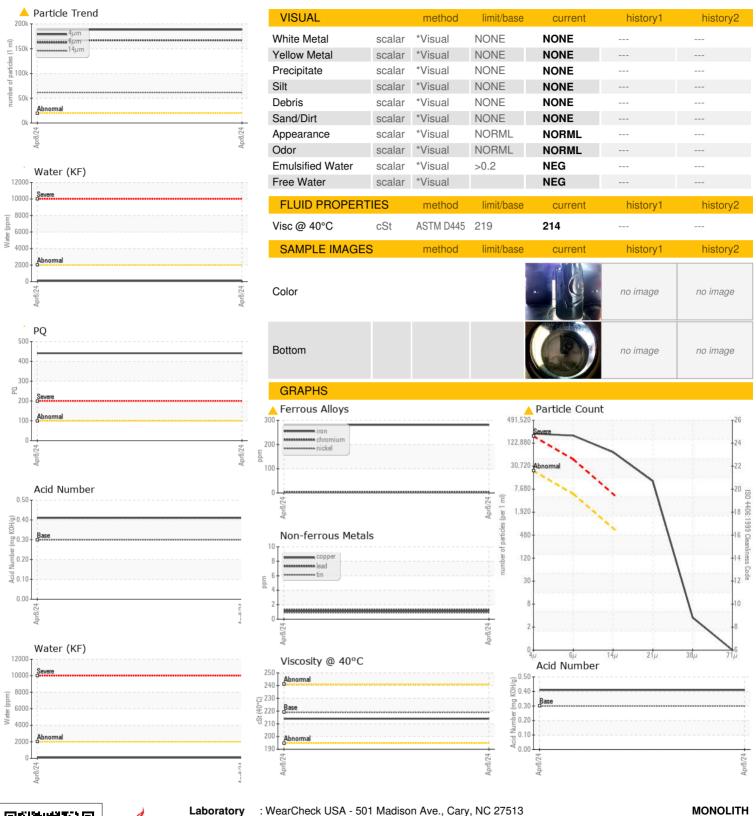
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION method limit/base current history1 history2	4 LTR)				Apr2024		
Sample Number Client Info SBP0001773	+ L1111)				AD12024		
Client Info	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Client Info O8 Apr 2024 Client Info O O Client Info O O O O O O O O O	Sample Number		Client Info		SBP0001773		
Dil Age	Sample Date		Client Info		08 Apr 2024		
Dil Changed Client Info N/A	Machine Age	hrs	Client Info		0		
MEARN METALS method limit/base current history1 history2 PQ ASTM D8184 441 ron ppm ASTM D5185m ≥200 ≥281 Chromium ppm ASTM D5185m >15 5 Nickel ppm ASTM D5185m >15 1 Fittanium ppm ASTM D5185m >1 Silver ppm ASTM D5185m >25 1 Lead ppm ASTM D5185m >200 1 Lead ppm ASTM D5185m >200 1 Copper ppm ASTM D5185m >200 1 Vanadium ppm ASTM D5185m >20 1 Cadmium ppm ASTM D5185m 1 Bariu	Oil Age	hrs	Client Info		0		
WEAR METALS method limit/base current history1 history2 PQ ASTM D8184 441 Iron ppm ASTM D5185m >200 281 Chromium ppm ASTM D5185m >15 5 Nickel ppm ASTM D5185m >15 1 Silver ppm ASTM D5185m >15 1 Aluminum ppm ASTM D5185m >25 1 Aluminum ppm ASTM D5185m >25 1 Aluminum ppm ASTM D5185m >20 1 Aluminum ppm ASTM D5185m >20 1 Aluminum ppm ASTM D5185m >20 1 Copper ppm ASTM D5185m >25 <1	Oil Changed		Client Info		N/A		
PQ ASTM D8184	Sample Status				ABNORMAL		
ASTM D5185m >200	WEAR METALS		method	limit/base	current	history1	history2
Chromium ppm ASTM D5185m >15 5 Nickel ppm ASTM D5185m >15 1 Titanium ppm ASTM D5185m <1	PQ		ASTM D8184		441		
Silver	ron	ppm	ASTM D5185m	>200	<u>^</u> 281		
Titanium	Chromium	ppm	ASTM D5185m	>15	5		
ASTM D5185m D0 ASTM D5185m D0 ASTM D5185m D0 D1 D1 D1 D1 D1	Nickel	ppm	ASTM D5185m	>15	1		
ASTM D5185m >25	Titanium	ppm	ASTM D5185m		<1		
Astronometric Astronometri	Silver		ASTM D5185m		0		
Lead ppm ASTM D5185m >100 1 Copper ppm ASTM D5185m >200 1 Vanadium ppm ASTM D5185m <1	Aluminum			>25	1		
Copper ppm ASTM D5185m >200 1 Tin ppm ASTM D5185m >25 <1	Lead		ASTM D5185m	>100	1		
ASTM D5185m Particles > 25					1		
Vanadium ppm ASTM D5185m <1 Cadmium ppm ASTM D5185m 1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 50 Barium ppm ASTM D5185m 5.0 6 Manganese ppm ASTM D5185m 2 Magnesium ppm ASTM D5185m 5.0 4 Calcium ppm ASTM D5185m 5.0 6 Phosphorus ppm ASTM D5185m 100 270 Zinc ppm ASTM D5185m 100 270 Sulfur ppm ASTM D5185m 1900 6665 CONTAMINANTS method limit/base current history1 history2					<1		
Cadmium ppm ASTM D5185m 1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 50 Barium ppm ASTM D5185m <1							
Soron ppm ASTM D5185m 50 Molybdenum ppm ASTM D5185m 5.0 6 Manganese ppm ASTM D5185m 2 Magnesium ppm ASTM D5185m 5.0 6 Calcium ppm ASTM D5185m 5.0 6 Phosphorus ppm ASTM D5185m 5.0 4 Zinc ppm ASTM D5185m 100 270 Zinc ppm ASTM D5185m 100 270 Sulfur ppm ASTM D5185m 1900 6665 Sulfur ppm ASTM D5185m 1900 6665 CONTAMINANTS method limit/base current history1 history2 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m 20 1 Potassium ppm ASTM D5185m >20 1 Potassium ppm ASTM D6304 >0.2 0.007 Potassium ppm ASTM D6304 >0.2 0.007 Potaticles >4μm ASTM D6304 >2000 75 Particles >6μm ASTM D7647 >600 A 188349 Particles >14μm ASTM D7647 >600 A 166945 Particles >21μm ASTM D7647 >600 A 16094 Particles >38μm ASTM D7647 >40 3 Particles >71μm ASTM D7647 >10 0 Dil Cleanliness ISO 4406 (c) >21/19/16 25/25/23							
Barium ppm ASTM D5185m 5.0 6	ADDITIVES		method	limit/base	current	history1	history2
Sarium	Boron	ppm	ASTM D5185m		50		
Molybdenum ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m	5.0	6		
Manganese ppm ASTM D5185m 2 Magnesium ppm ASTM D5185m 5.0 <1	Molybdenum	ppm	ASTM D5185m		<1		
Magnesium ppm ASTM D5185m 5.0 <1	Manganese	ppm	ASTM D5185m		2		
Calcium ppm ASTM D5185m 5.0 6 Phosphorus ppm ASTM D5185m 100 270 Zinc ppm ASTM D5185m 5.0 4 Sulfur ppm ASTM D5185m 1900 6665 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 7 Potassium ppm ASTM D5185m >20 1 Potassium ppm ASTM D5185m >20 1 Water % ASTM D5185m >20 1 Water % ASTM D6304 >0.2 0.007 Particles >4μm ASTM D7647 >20000 188349 Particles >6μm ASTM D7647 >640 616	-		ASTM D5185m	5.0	<1		
Phosphorus ppm ASTM D5185m 100 270 Zinc ppm ASTM D5185m 5.0 4 Sulfur ppm ASTM D5185m 1900 6665 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 7 Sodium ppm ASTM D5185m 20 1 Potassium ppm ASTM D5185m >20 1 Water % ASTM D6304 >0.2 0.007 Supm Water ppm ASTM D6304 >2000 75 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >20000 188349 Particles >21µm ASTM D7647 >640	-		ASTM D5185m	5.0	6		
Zinc ppm ASTM D5185m 5.0 4 Sulfur ppm ASTM D5185m 1900 6665 Sulfur ppm ASTM D5185m 1900 6665 Sulfur ppm ASTM D5185m 2 Sodium ppm ASTM D5185m 2 ASTM D5185m 2 Potassium ppm ASTM D5185m >20 1 Potassium ppm ASTM D6304 >0.2 0.007 Popm Water ppm ASTM D6304 >2000 75 Popm Water ppm ASTM D6304 >2000 75 Popm Water ppm ASTM D7647 >20000 ▲ 188349 Popm Particles >4μm ASTM D7647 >5000 ▲ 166945 Popm Particles >21μm ASTM D7647 >640 ▲ 61609 Popm Particles >21μm ASTM D7647 >40 ASTM D764				100	270		
Sulfur ppm ASTM D5185m 1900 6665 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 2 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m 20 1 Nater % ASTM D6304 >0.2 0.007 opm Water ppm ASTM D6304 >2000 75 Particles >4μm ASTM D7647 >20000 188349 Particles >6μm ASTM D7647 >5000 166945 Particles >14μm ASTM D7647 >640 61609 Particles >21μm ASTM D7647 >160 10785 Particles >71μm ASTM D7647 >10 0					_		
Silicon ppm ASTM D5185m >50 7 Sodium ppm ASTM D5185m 2 Sodium ppm ASTM D5185m 2 Sodium ppm ASTM D5185m 2 STM D5185m ppm ASTM D5185m >20 1 STM D5185m ppm ASTM D6304 >0.2 0.007 STM D6304 >2000 75 STM D6304 >2000 75 STM D6304 >2000 75 STM D7647 ppm ASTM D7647 >20000	-				-		
Sodium ppm ASTM D5185m 2	CONTAMINANTS	S	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 1 Water % ASTM D6304 >0.2 0.007 opm Water ppm ASTM D6304 >2000 75 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >20000 188349 Particles >6μm ASTM D7647 >5000 166945 Particles >14μm ASTM D7647 >640 61609 Particles >21μm ASTM D7647 >160 10785 Particles >38μm ASTM D7647 >40 3 Particles >71μm ASTM D7647 >10 0 Dil Cleanliness ISO 4406 (c) >21/19/16 25/25/23	Silicon	ppm	ASTM D5185m	>50	7		
Nater % ASTM D6304 >0.2 0.007 Opm Water ppm ASTM D6304 >2000 75 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >20000 188349 Particles >6μm ASTM D7647 >5000 166945 Particles >14μm ASTM D7647 >640 61609 Particles >21μm ASTM D7647 >160 10785 Particles >38μm ASTM D7647 >40 3 Particles >71μm ASTM D7647 >10 0 Dil Cleanliness ISO 4406 (c) >21/19/16 25/25/23	Sodium	ppm	ASTM D5185m		2		
Opm Water ppm ASTM D6304 >2000 75 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >20000 188349 Particles >6μm ASTM D7647 >5000 166945 Particles >14μm ASTM D7647 >640 61609 Particles >21μm ASTM D7647 >160 10785 Particles >38μm ASTM D7647 >40 3 Particles >71μm ASTM D7647 >10 0 Dil Cleanliness ISO 4406 (c) >21/19/16 25/25/23	Potassium	ppm	ASTM D5185m	>20	1		
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >20000 Δ 188349 Particles >6μm ASTM D7647 >5000 Δ 166945 Particles >14μm ASTM D7647 >640 Δ 61609 Particles >21μm ASTM D7647 >160 Δ 10785 Particles >38μm ASTM D7647 >40 3 Particles >71μm ASTM D7647 >10 0 Dil Cleanliness ISO 4406 (c) >21/19/16 Δ 25/25/23	Nater	%	ASTM D6304	>0.2	0.007		
Particles >4μm	opm Water	ppm	ASTM D6304	>2000	75		
Particles >6μm ASTM D7647 >5000 ▲ 166945 Particles >14μm ASTM D7647 >640 ▲ 61609 Particles >21μm ASTM D7647 >160 ▲ 10785 Particles >38μm ASTM D7647 >40 3 Particles >71μm ASTM D7647 >10 0 Dil Cleanliness ISO 4406 (c) >21/19/16 25/25/23	FLUID CLEANLII	NESS	method	limit/base	current	history1	history2
Particles >14μm ASTM D7647 >640 ▲ 61609 Particles >21μm ASTM D7647 >160 ▲ 10785 Particles >38μm ASTM D7647 >40 3 Particles >71μm ASTM D7647 >10 0 Dil Cleanliness ISO 4406 (c) >21/19/16 ▲ 25/25/23	Particles >4µm		ASTM D7647	>20000	188349		
Particles >21μm ASTM D7647 >160 ▲ 10785 Particles >38μm ASTM D7647 >40 3 Particles >71μm ASTM D7647 >10 0 Dil Cleanliness ISO 4406 (c) >21/19/16 ▲ 25/25/23	Particles >6µm		ASTM D7647	>5000	<u> </u>		
Particles >38μm ASTM D7647 >40 3 Particles >71μm ASTM D7647 >10 0 Dil Cleanliness ISO 4406 (c) >21/19/16 Δ 25/25/23	Particles >14µm		ASTM D7647	>640	61609		
Particles >38μm ASTM D7647 >40 3 Particles >71μm ASTM D7647 >10 0 Dil Cleanliness ISO 4406 (c) >21/19/16 Δ 25/25/23	Particles >21µm		ASTM D7647	>160	<u> </u>		
Particles >71μm ASTM D7647 >10 0 Oil Cleanliness ISO 4406 (c) >21/19/16 ▲ 25/25/23	Particles >38µm		ASTM D7647	>40	3		
Oil Cleanliness ISO 4406 (c) >21/19/16 ▲ 25/25/23			ASTM D7647	>10	0		
FLUID DEGRADATION method limit/base current history1 history2	Oil Cleanliness						
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: SBP0001773 Lab Number : 06147342

Unique Number : 10977420 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Apr 2024 Tested : 15 Apr 2024

Diagnosed : 16 Apr 2024 - Don Baldridge

27077 SW 42ND ST HALLAM, NE US 68368 Contact: ALANA WALLACE

alana.wallace@monolith-corp.com T:

 st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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