

**WEAR**



Machine Id  
**B1**  
Component  
**Hoist**  
Fluid

**PETRO CANADA SYNDURO SHB ISO 220 (25 LTR)**

**DIAGNOSIS**

**Recommendation**

Nous vous recommandons de vidanger l'huile de ce composant si vous ne l'avez pas déjà fait. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. Veuillez préciser la marque et le modèle du composant lors du prochain échantillon.

**Wear**

Usure de palier et (ou) de douille.

**Contamination**

Il n'y a aucun indice de contamination dans l'huile.

**Fluid Condition**

Le AN est acceptable pour ce fluide. l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0069647</b>	PC0070513	PC0070516
Sample Date	Client Info		<b>21 Dec 2023</b>	06 Feb 2023	23 Jan 2023
Machine Age	mths	Client Info	<b>0</b>	0	0
Oil Age	mths	Client Info	<b>6</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	NORMAL	SEVERE

CONTAMINATION	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

WEAR METALS	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>300	<b>8</b>	4	7
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>120	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185(m)	>200	<b>2</b>	<1	6
Tin	ppm	ASTM D5185(m)	>15	<b>▲ 28</b>	12	▲ 36
Antimony	ppm	ASTM D5185(m)		<b>1</b>	<1	3
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	<1

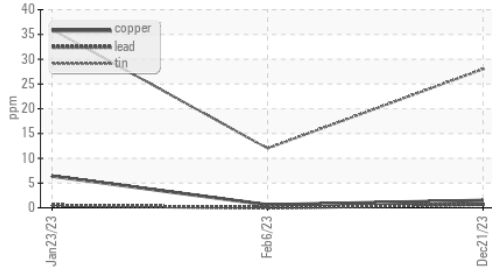
ADDITIVES	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>1</b>	1	1
Barium	ppm	ASTM D5185(m)	5.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	5.0	<b>&lt;1</b>	0	0
Calcium	ppm	ASTM D5185(m)	5.0	<b>&lt;1</b>	0	0
Phosphorus	ppm	ASTM D5185(m)	100	<b>87</b>	103	100
Zinc	ppm	ASTM D5185(m)	5.0	<b>&lt;1</b>	<1	3
Sulfur	ppm	ASTM D5185(m)	1900	<b>1916</b>	1943	1921
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>75	<b>3</b>	1	2
Sodium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	0	<1

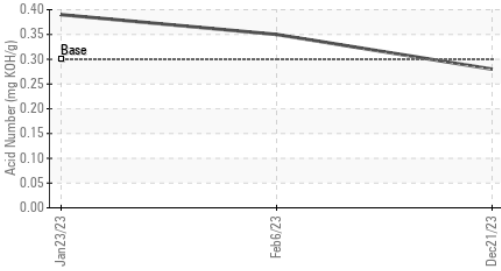
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>229965</b>	102491	▲ 213185
Particles >6µm	ASTM D7647	>1300	<b>68454</b>	27466	▲ 112496
Particles >14µm	ASTM D7647	>160	<b>353</b>	302	▲ 4339
Particles >21µm	ASTM D7647	>40	<b>39</b>	53	▲ 591
Particles >38µm	ASTM D7647	>10	<b>2</b>	10	5
Particles >71µm	ASTM D7647	>3	<b>0</b>	8	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>25/23/16</b>	24/22/15	▲ 25/24/19

# OIL ANALYSIS REPORT

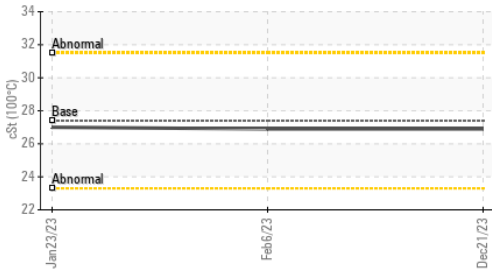
▲ Non-ferrous Metals



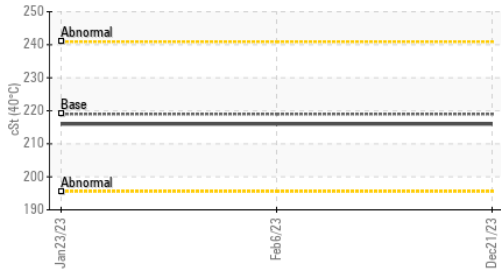
Acid Number



Viscosity @ 100°C



Viscosity @ 40°C



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.3	<b>0.28</b>	0.35	0.39

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	219	<b>216</b>	216	216
Visc @ 100°C	cSt	ASTM D7279(m)	27.4	<b>26.9</b>	26.9	27.0
Viscosity Index (VI)	Scale	ASTM D2270*	160	<b>159</b>	159	160

SAMPLE IMAGES



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0069647 **Received** : 27 Dec 2023  
**Lab Number** : **02605456** **Diagnosed** : 28 Dec 2023  
**Unique Number** : 5698541 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: KV100, VI )

**WESDOME KIENA MINE**  
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 VAL-D'OR, QC  
 CA J0P 4P3  
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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.