

## **OIL ANALYSIS REPORT**

#### Machine Id MEPACO B40392 - EAST BLENDER Component

South Gearbox

PETRO CANADA 220 (--- GAL)

### DIAGNOSIS

#### Recommendation

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

#### Wear

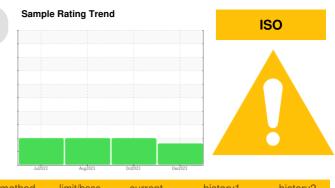
All component wear rates are normal.

#### 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.



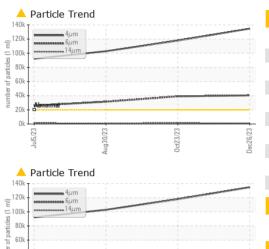
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0872431	WC0856099	WC0791941
Sample Date		Client Info		26 Dec 2023	23 Oct 2023	30 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	3	2	4
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	<1
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>200	0	0	0
Tin	ppm		>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1 0	0
	ppm ppm		limit/base			
Boron		ASTM D5185m	limit/base	0	0	0
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	0 0	0	0
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0	0 0 0	0 0 0
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0	0 0 0 <1	0 0 0 0
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 0	0 0 <1 <1	0 0 0 0 0
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 0	0 0 <1 <1 2	0 0 0 0 0 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 0 0 141	0 0 <1 <1 2 147	0 0 0 0 0 0 151
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 0 0 141 0	0 0 <1 <1 2 147 2	0 0 0 0 0 0 151 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 0 141 0 619	0 0 <1 <1 2 147 2 686	0 0 0 0 0 0 151 0 792
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 0 141 0 619 current	0 0 <1 <1 2 147 2 686 history1	0 0 0 0 0 0 151 0 792 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 0 141 0 619 current 7	0 0 2 3 4 1 2 147 2 686 686 history1 9	0 0 0 0 0 151 0 792 history2 9
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m ASTM D5185m	limit/base >50	0 0 0 0 0 141 0 619 current 7	0 0 2 1 2 147 2 686 history1 9 0	0 0 0 0 0 151 0 792 history2 9 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >50 >20	0 0 0 0 0 141 0 619 <i>current</i> 7 0 <1	0 0 () () () () () () () () () () () () ()	0 0 0 0 0 151 0 792 history2 9 <1 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >50 >20 limit/base >20000	0 0 0 0 0 141 0 619 current 7 0 <1 current	0 0 2 1 2 147 2 686 history1 9 0 0 0 0	0 0 0 0 0 151 0 792 history2 9 <1 0 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >50 >20 limit/base >20000	0 0 0 0 0 141 0 619 <i>current</i> 7 0 <1 <i>current</i> 2 1 34701	0 0 0 <1 <1 2 147 2 686 history1 9 0 0 0 0 0 history1 ▲ 117814	0 0 0 0 0 151 0 792 history2 9 <1 0 ×1 0 0 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >50 >20 limit/base >20000 >5000 >5000 >640	0 0 0 0 0 141 0 619 <i>current</i> 7 0 current 7 0 <1 1 4 134701 ▲ 134701	0 0 0 <1 <1 2 147 2 686 history1 9 0 0 0 0 history1 4 117814 ▲ 117814	0 0 0 0 0 151 0 792 history2 9 <1 0 0 history2 0 102808 ▲ 102808
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647	limit/base >50 >20 limit/base >20000 >5000 >5000 >640	0 0 0 0 0 141 0 619 current 7 0 current 7 0 current 1 4 134701 ▲ 134701 ▲ 134701	0 0 0 <1 <1 2 147 2 686 history1 9 0 0 0 0 history1 ▲ 117814 ▲ 39049 ▲ 1324	0 0 0 0 0 151 0 792 history2 9 <1 0 8 ×102808 ▲ 102808 ▲ 31496 ▲ 1144
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5647 ASTM D7647 ASTM D7647	limit/base >50 >20 limit/base >20000 >50000 >5000 >640 >160 >160 >40	0 0 0 0 0 141 0 619 current 7 0 <1 7 0 <1 1 1 4 1 34701 ▲ 134701 ▲ 134701 ▲ 1045 153	0 0 0 <1 <1 2 147 2 686 history1 9 0 0 0 0 history1 ▲ 117814 ▲ 39049 ▲ 1324 ▲ 199	0 0 0 0 0 0 151 0 792 history2 9 <1 0 0 history2 0 102808 ▲ 102808 ▲ 31496 ▲ 1144 ▲ 179
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >50 >20 limit/base >20000 >50000 >5000 >640 >160 >160 >40	0 0 0 0 0 141 0 619 current 7 0 current 7 0 <1 2 1 2 1 3 40393 ↓ 1045 153 2	0 0 0 <1 <1 2 147 2 686 history1 9 0 0 0 0 history1 ▲ 117814 ▲ 117814 ▲ 39049 ▲ 1324	0 0 0 0 0 151 0 792 history2 9 <1 0 102808 102808 31496 31496 1144 179 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >50 >20 limit/base >20000 >20000 >5000 >640 >160 >40 >40 >10	0 0 0 0 0 141 0 619 current 7 0 <1 current 1 34701 ▲ 134701 ▲ 134701 ▲ 134701 ▲ 134701 ▲ 134701	0 0 0 <1 <1 2 147 2 686 history1 9 0 0 0 0 history1 ▲ 117814 ▲ 39049 ▲ 1324 ▲ 199 4 2	0 0 0 0 0 151 0 792 history2 9 <1 0 history2 ▲ 102808 ▲ 102808 ▲ 31496 ▲ 1144 ▲ 179 2 0

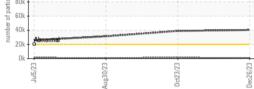
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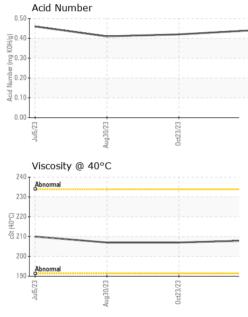
Contact/Location: JAMES ROBINSON III - ROCROCUS



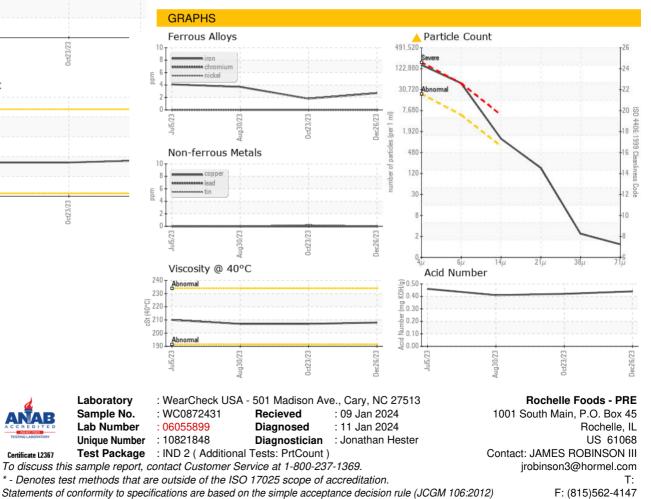
# **OIL ANALYSIS REPORT**







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		208	207	207
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						
Bottom				()		



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