

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

PML-PR41-150 Machine Id PML-PR41-150 Component Air Compressor Fluid

ATLAS COPCO ROTO Z FLUID (--- GAL)

RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

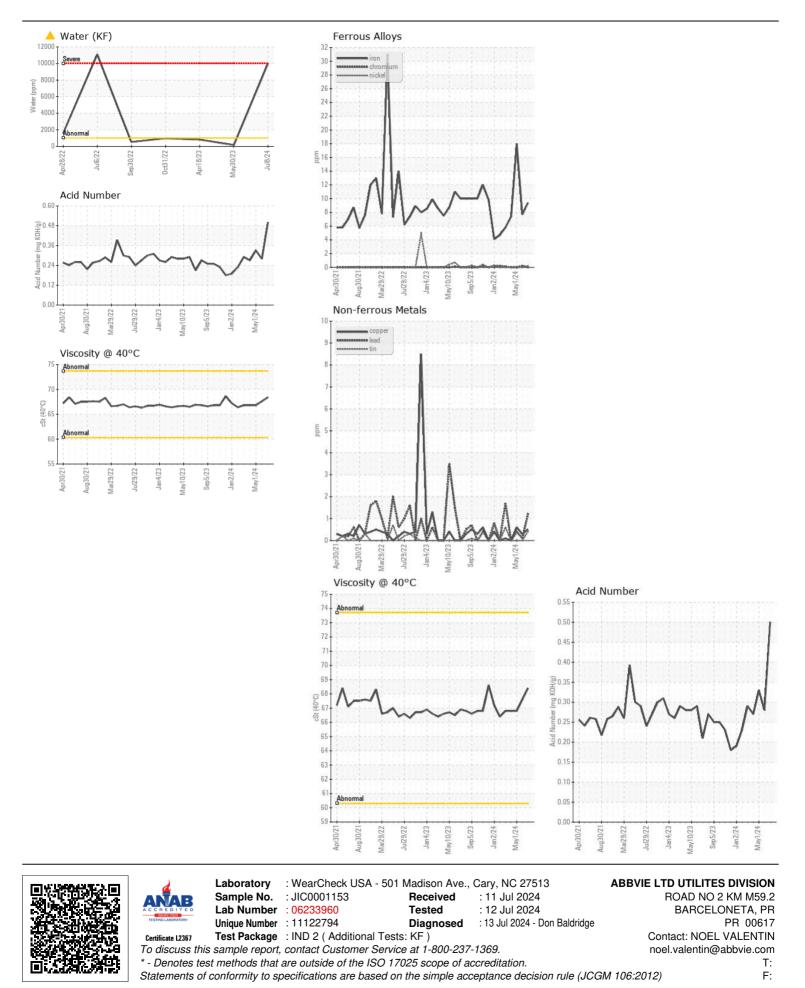
There is a moderate amount of visible silt present in the sample. There is a high concentration of water present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid.

Test UOM Method Limit/An Current History1 History2 Sample Number Client Info 08 Jul 2024 01 Jun 2024 01 May 2024 Machine Age hrs Client Info 0 0 0 0 Oil Age hrs Client Info 0 0 0 0 Filter Age hrs Client Info N/A N/A N/A N/A Filter Changed Client Info N/A N/A N/A N/A Sample Status Client Info N/A N/A N/A N/A Sample Status Viran ASTM 05185m >70 9 8 18 Chromium ppm ASTM 05185m >10 <1 0 <1 Nicel ppm ASTM 05185m >6 <1 0 <1 Aluminum ppm ASTM 05185m >20 1 <1 <1 Qopper ppm ASTM 05185m<>15 <1 0 <								
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Nickel ppm ASTM D5185m >-C C <thc< th=""> C <thc< th=""> <thc< th=""></thc<></thc<></thc<>		-				-	-	
Titanium ppm ASTM D5185m 0 <1						-		
Silver ppm ASTM D5185m <1					>0		÷	÷
Aluminum ppm ASTM D5185m >10 <1						-		
Lead ppm ASTM D5185m >20 1 <1					>10		-	
Copper ppm ASTM D5185m >80 <1								
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Water % ASTM D6304 >0.1 ▲ 0.999 ppm Water ppm ASTM D6304 >1000 ▲ 9990 Silt scalar *Visual NONE MODER NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML NORML NORML Cdor scalar *Visual NORML NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 ▲ 0.2% NEG NEG Sodium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 <1 0 Malganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 167								
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Sodium ppm ASTM D5185m 0 0 0 Boron ppm ASTM D5185m 3 0 0 Barium ppm ASTM D5185m 0 <1 0 Molybdenum ppm ASTM D5185m 0 <1 0 Magnese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 Calcium ppm ASTM D5185m 30 <1 <1 Calcium ppm ASTM D5185m 167 0 4 Phosphorus ppm ASTM D5185m 167 0 4 Zinc ppm ASTM D5185m 107 5 1 Sulfur ppm ASTM D5185m 107 5 1 Sulfur ppm ASTM D5185m 0.50 0.28 0.33 Visc @ 40°C cSt ASTM D445 68.4 67.6 66.8		Potassium Water ppm Water Silt Debris Sand/Dirt	ppm % ppm scalar scalar scalar	ASTM D5185m ASTM D6304 *Visual *Visual *Visual	>20 >0.1 >1000 NONE NONE	1 0.999 9990 MODER NONE NONE	<1 NONE NONE NONE	<1 NONE LIGHT NONE
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Boron ppm ASTM D5185m 3 0 0 Barium ppm ASTM D5185m 0 <1 0 Molybdenum ppm ASTM D5185m 0 <1 0 Molybdenum ppm ASTM D5185m 3 0 0 Maganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 30 <1 <1 Calcium ppm ASTM D5185m 167 0 4 Phosphorus ppm ASTM D5185m 167 0 4 Zinc ppm ASTM D5185m 107 5 1 Sulfur ppm ASTM D5185m 1049 627 604 Acid Number (AN) mg KOH/g ASTM D8045 0.50 0.28 0.33 Visc @ 40°C cSt ASTM D445 68.4 67.6 66.8		Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor	ppm % ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual	>20 >0.1 >1000 NONE NONE NORML NORML	1	<1 NONE NONE NONE NORML NORML	<pre><1 NONE LIGHT NONE NORML NORML</pre>
Barium ppm ASTM D5185m 0 <1		Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm % ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual	>20 >0.1 >1000 NONE NONE NORML NORML	1	<1 NONE NONE NONE NORML NORML NEG	<1 NONE LIGHT NONE NORML NORML NEG
Molybdenum ppm ASTM D5185m 3 0 0 Manganese ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 30 <1 <1 Calcium ppm ASTM D5185m 167 0 4 Phosphorus ppm ASTM D5185m 544 518 435 Zinc ppm ASTM D5185m 107 5 1 Sulfur ppm ASTM D5185m 1049 627 604 Acid Number (AN) mg KOH/g ASTM D8045 0.50 0.28 0.33 Visc @ 40°C cSt ASTM D445 68.4 67.6 66.8		Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm % ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.1 >1000 NONE NONE NORML NORML	1	<1 NONE NONE NORML NORML NEG 0	<1 NONE LIGHT NORML NORML NEG 0
Manganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 30 <1		Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm % ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >0.1 >1000 NONE NONE NORML NORML	1	<1 NONE NONE NORML NORML NEG 0 0	<pre><1 NONE LIGHT NONE NORML NORML NEG 0 0 0</pre>
Magnesium ppm ASTM D5185m 30 <1		Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm % ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >0.1 >1000 NONE NONE NORML NORML	1	<1 NONE NONE NORML NORML NEG 0 0 <1	<1 NONE LIGHT NORML NORML NORML NEG 0 0 0
Calcium ppm ASTM D5185m 167 0 4 Phosphorus ppm ASTM D5185m 544 518 435 Zinc ppm ASTM D5185m 107 5 1 Sulfur ppm ASTM D5185m 1049 627 604 Acid Number (AN) mg KOH/g ASTM D8045 0.50 0.28 0.33 Visc @ 40°C cSt ASTM D445 68.4 67.6 66.8		Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm % ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 >1000 NONE NONE NORML NORML	1	<1 NONE NONE NORML NORML NORML NEG 0 0 <1 0	<1 NONE LIGHT NORML NORML NORML NEG 0 0 0 0 0
Phosphorus ppm ASTM D5185m 544 518 435 Zinc ppm ASTM D5185m 107 5 1 Sulfur ppm ASTM D5185m 107 5 1 Sulfur ppm ASTM D5185m 1049 627 604 Acid Number (AN) mg KOH/g ASTM D8045 0.500 0.28 0.33 Visc @ 40°C cSt ASTM D445 68.4 67.6 66.8		Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm % ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 >1000 NONE NONE NORML NORML	1	<1 NONE NONE NORML NORML NEG 0 0 <1 0 0	<1 NONE LIGHT NONE NORML NORML NEG 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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Acid Number (AN) mg KOH/g ASTM D8045 0.50 0.28 0.33 Visc @ 40°C cSt ASTM D445 68.4 67.6 66.8		Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm % ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 >1000 NONE NONE NORML NORML	1	<1 NONE NONE NORML NORML NEG 0 0 <1 0 <1 0 <1 0 0 <1 0 0	<1 NONE LIGHT NORML NORML NORML NORML 0 0 0 0 0 0 0 0 0 1 4
Visc @ 40°C cSt ASTM D445 68.4 67.6 66.8		Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm % scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 >1000 NONE NONE NORML NORML	1	<1 NONE NONE NONE NORML NORML NEG 0 0 <1 0 0 <1 0 0 <1 0 0 518	<1 NONE LIGHT NONE NORML NORML NORML 0 0 0 0 0 0
		Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm % scalar scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 >1000 NONE NONE NORML NORML	1	<1 NONE NONE NONE NORML NORML NEG 0 0 <1 0 0 <1 0 0 <1 0 0 518 5	<1 NONE LIGHT NONE NORML NORML NORML 0 0 0 0 0 0 0
		Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm % scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 >1000 NONE NONE NORML NORML	1	<1 NONE NONE NONE NORML NORML NEG 0 0 <1 0 <1 0 0 <1 0 0 <1 0 518 5 5 627	<1 NONE LIGHT NORML NORML NORML NORML NORML NORML 0 0 0 0 0 0 0 0 0 0 1 4 435 1 604

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