

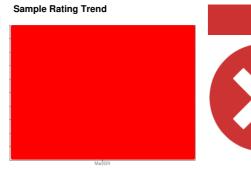
PROBLEM SUMMARY

^{Area} [8068171] 938

Component

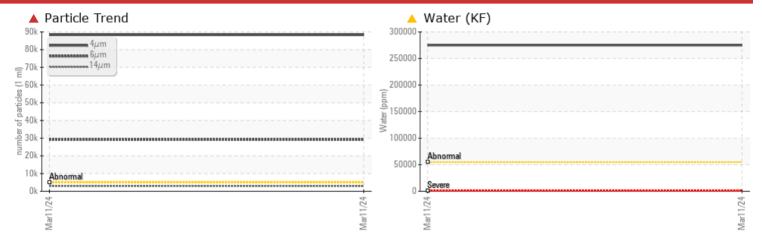
Hydraulic System

FIRE-RESISTANT FLUID ISO 68 (--- GAL)





COMPONENT CONDITION SUMMARY



RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We advise that you check all areas where contaminants can enter the system. We advise that you add water to increase the water concentration level to 40%. Ensure that only distilled water or boiler feed water condensate are used for make-up. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Customer Id: ESCPOR **Sample No.: WC0885273 Lab Number:** 02623548 Test Package: IND 2



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To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

PROBLEMATIC T	EST RE	SULTS			
Sample Status				SEVERE	
Water	%	ASTM D6304*	>55	27.5	
ppm Water	ppm	ASTM D6304*	>55000	275000	
Particles >4µm		ASTM D7647	>5000	88297	
Particles >6µm		ASTM D7647	>1300	29149	
Particles >14μm		ASTM D7647	>160	2930	
Particles >21μm		ASTM D7647	>40	1 754	
Particles >38μm		ASTM D7647	>10	4 34	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	2 4/22/19	
Appearance	scalar	Visual*	NORML	▲ FRGLY	

RECOMMENDED AC	CTIONS			
Action	Status	Date	Done By	Description
Service/change Fluid			?	We advise that you add water to increase the water concentration level to 40%. Ensure that only distilled water or boiler feed water condensate are used for make-up.
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Resample			?	Resample in 30-45 days to monitor this situation.
Alert			?	Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment.
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
Check Breathers			?	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.
Check Dirt Access			?	We advise that you check all areas where contaminants can enter the system.
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

HISTORICAL DIAGNOSIS



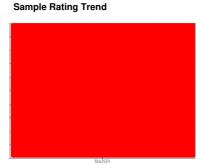
OIL ANALYSIS REPORT

[8068171] 938

Component

Hydraulic System

FIRE-RESISTANT FLUID ISO 68 (--- GAL)





DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We advise that you check all areas where contaminants can enter the system. We advise that you add water to increase the water concentration level to 40%. Ensure that only distilled water or boiler feed water condensate are used for make-up. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

Fluid Condition

The water concentration level is lower than acceptable for this fluid. 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 Number Client Info WC0885273 Sample Date Client Info 11 Mar 2024		AATION		11 14 11		13-1	11
Client Info	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0	Sample Number		Client Info		WC0885273		
Dil Age	Sample Date		Client Info		11 Mar 2024		
Dil Changed Client Info Severe	Machine Age	hrs	Client Info		0		
SEVERE	Oil Age	hrs	Client Info		0		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM DS185(m) >20 0 Chromium ppm ASTM DS185(m) >20 0 Nickel ppm ASTM DS185(m) >20 0 Silver ppm ASTM DS185(m) >20 0 Aluminum ppm ASTM DS185(m) >20 0 Aluminum ppm ASTM DS185(m) >20 0 Lead ppm ASTM DS185(m) >20 0 Apper App	Oil Changed		Client Info		N/A		
Chromium ppm ASTM D5185 m >20 0	Sample Status				SEVERE		
Chromium ppm ASTM D5185(m) >20 0 Nickel ppm ASTM D5185(m) >20 0 Titanium ppm ASTM D5185(m) 0 Aluminum ppm ASTM D5185(m) >20 0 Aluminum ppm ASTM D5185(m) >20 0 Lead ppm ASTM D5185(m) >20 0 Lead ppm ASTM D5185(m) >20 0 Copper ppm ASTM D5185(m) >20 0 Antimony ppm ASTM D5185(m) >20 0 Antimony ppm ASTM D5185(m) >20 0 Antimony ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 0 Cadmium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 5 57 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 5 <1 Molybdenum ppm ASTM D5185(m) 5 <1 Manganesiem ppm ASTM D5185(m) 5 <1 Calcium ppm ASTM D5185(m) 50 1 Calcium ppm ASTM D5185(m) 50 1 Calcium ppm ASTM D5185(m) 50 52 Contamination ppm ASTM D5185(m) 515 <1 Contamination ppm ASTM D5185(m) >15 <1 Contamination ppm ASTM D5185(m) >20 357 Water % ASTM D6185(m) >550 27.5 Potassium ppm ASTM D6185(m) >550 27.5 Particles Selum ASTM D6304* >550 27.5000 FUID CLEANLINESS method limit/base current history1 history2 Particles Selum ASTM D6304* >550 29149 Fullo Cleanum ASTM D6304* >550 29149 ASTM D6304*	WEAR METALS		method	limit/base	current	history1	history2
Chromium ppm ASTM D5185(m) >20 0	Iron	ppm	ASTM D5185(m)	>20	0		
Nickel ppm ASTM D5185(m) >20 0 Titanium ppm ASTM D5185(m) 0 0 Silver ppm ASTM D5185(m) <1 Aluminum ppm ASTM D5185(m) >20 0 Lead ppm ASTM D5185(m) >20 0 Copper ppm ASTM D5185(m) >20 0 Tin ppm ASTM D5185(m) >20 0 Tin ppm ASTM D5185(m) >20 0 Antimony ppm ASTM D5185(m) >20 0 Antimony ppm ASTM D5185(m) 0 Cadmium ppm ASTM D5185(m) 0 Cadmium ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history2 Barium ppm ASTM D5185(m) 5 57 Manganese ppm ASTM D5185(m) 5 <1 Manganese ppm ASTM D5185(m) 5 <1 Calcium ppm ASTM D5185(m) 50 1 Calcium ppm ASTM D5185(m) 50 52 Contaminant ppm ASTM D5185(m) 50 52 Contaminant ppm ASTM D5185(m) <1 Contaminant ppm AST	Chromium		. ,	>20			
Silver	Nickel		1	>20	0		
Silver	Titanium		. ,		0		
Ast Ast	Silver		(/		<1		
Lead	Aluminum		. ,	>20	0		
Copper ppm ASTM D5185(m) >20 0 Tin ppm ASTM D5185(m) >20 0 Antimony ppm ASTM D5185(m) 0 Vanadium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 0 Cadmium ppm ASTM D5185(m) 5 57 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 5 57 Barium ppm ASTM D5185(m) 5 <1	Lead						
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Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 5 <1		10 10 100	ACTM DE10E(m)	E	.4		
Magnesium ppm ASTM D5185(m) 5 <1			(/				
Calcium ppm ASTM D5185(m) 50 1 Phosphorus ppm ASTM D5185(m) 175 8 Zinc ppm ASTM D5185(m) 62 11 Sulfur ppm ASTM D5185(m) 500 52 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 <1 Sodium ppm ASTM D5185(m) >15 <1 Potassium ppm ASTM D5185(m) >20 357 Water % ASTM D6304* >55 27.5 ppm Water ppm ASTM D6304* >55000 275000 FLUID CLEANLINESS method limit/base	Molybdenum	ppm	ASTM D5185(m)		0		
Phosphorus ppm ASTM D5185(m) 175 8	Molybdenum Manganese	ppm	ASTM D5185(m) ASTM D5185(m)	5	0		
Zinc ppm ASTM D5185(m) 62 11 Sulfur ppm ASTM D5185(m) 500 52 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 <1 Sodium ppm ASTM D5185(m) 11 Potassium ppm ASTM D5185(m) >20 357 Water % ASTM D6304* >55 27.5 ppm Water ppm ASTM D6304* >55000 275000 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >5000 88297 Particles >6μm ASTM D7647 >1300 29149	Molybdenum Manganese Magnesium	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5	0 0 <1		
Sulfur ppm ASTM D5185(m) 500 52	Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 50	0 0 <1 1		
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Sodium ppm ASTM D5185(m) 11 Potassium ppm ASTM D5185(m) >20 357 Water % ASTM D6304* >55 Δ 27.5 ppm Water ppm ASTM D6304* >55000 Δ 275000 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >5000 Δ 88297 Particles >6μm ASTM D7647 >1300 Δ 29149	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 50 175 62	0 0 <1 1 8 11 52		
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FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >5000 Δ 88297 Particles >6μm ASTM D7647 >1300 Δ 29149	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) MASTM D5185(m) MASTM D5185(m) MASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 50 175 62 500 limit/base >15	0 0 <1 1 8 11 52 <1 current	 history1	 history2
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Particles >6μm ASTM D7647 >1300 Δ 29149	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) MASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 50 175 62 500 limit/base >15 >20 >55	0 0 <1 1 8 11 52 <1 current <1 11 357 △ 27.5	history1	
	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) MASTM D5185(m) MASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304*	5 5 50 175 62 500 limit/base >15 >20 >55 >5000	0 0 <1 1 8 11 52 <1 current <1 11 357 △ 27.5 △ 275000	history1	history2
Porticion 14:00 ACTM D7647 . 160 A 2020	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D6304* ASTM D6304*	5 5 50 175 62 500 limit/base >15 >20 >55 >55000 limit/base	0 0 <1 1 8 11 52 <1 current <1 11 357 ▲ 27.5 ▲ 275000 current	history1 history1	history2 history2
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41.000 - 7 . 4.00	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) MASTM D5185(m) MASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* ASTM D6304* ASTM D7647 ASTM D7647 ASTM D7647	5 5 50 175 62 500 limit/base >15 >20 >55 >55000 limit/base >5000 >1300 >160 >40	0 0 <1 1 8 11 52 <1 current <1 11 357 △ 27.5 △ 275000 current △ 88297 △ 29149 △ 2930 △ 754	history1 history1	history2 history2
	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) MASTM D5185(m) MASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	5 5 50 175 62 500 limit/base >15 >20 >55 >55000 limit/base >5000 >1300 >160 >40 >10	0 0 <1 1 8 11 52 <1 current <1 11 357 △ 27.5 △ 27.5 △ 275000 current △ 88297 △ 29149 △ 2930 △ 754 △ 34	history1 history1	history2 history2



OIL ANALYSIS REPORT

