

PROBLEM SUMMARY

^{Area} [7762481] LIFT TABLE

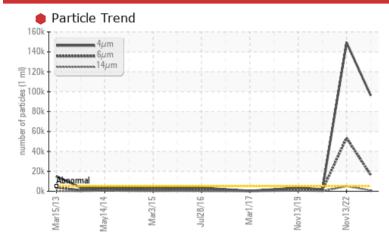
Component

Hydraulic System

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

Sample Rating Trend

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 perform a filter service, and use offline 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.: WC0741309 Lab Number: 02587350 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

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

PROBLEMATIC TEST RESULTS										
Sample Status			SEVERE	SEVERE	ABNORMAL					
Particles >4µm	ASTM D7647	>5000	96232	149390	1900					
Particles >6µm	ASTM D7647	>1300	16373	53513	970					
Particles >14µm	ASTM D7647	>160	A 835	• 5014	120					
Particles >21µm	ASTM D7647	>40	<u> </u>	1288	15					
Particles >38µm	ASTM D7647	>10	23	△ 67	2					
Oil Cleanliness	ISO 4406 (c)	>19/17/14	2 4/21/17	24/23/20	18/17/14					

RECOMMENDED ACTIONS Action **Status** Date Done By Description We advise that you perform a filter service, and use off-line filtration to Change Filter ? improve the cleanliness of the system fluid. Resample ? Resample in 30-45 days to monitor this situation. Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore ? Alert 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. 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 Information Required sample. The air breather requires service. If unrated, we recommend that you replace with a **Check Breathers** ? suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you check all areas where contaminants can enter the **Check Dirt Access** ? We advise that you perform a filter service, and use off-line filtration to Filter Fluid ? improve the cleanliness of the system fluid.

HISTORICAL DIAGNOSIS

ISO



13 Nov 2022 Diag: Kevin Marson

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. Due to the low reserve alkalinity it is advised that you contact your fluid supplier to assist in restoring the proper amine concentration. 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.All component wear rates are normal. Particles >14µm are severely high. Particles >21µm are severely high. Particles >6µm are severely high. Particles >71µm are abnormally high. The reserve alkalinity of this fluid is lower than acceptable. The AN level is acceptable for this fluid. The pH level of this fluid is within the acceptable levels.



VISCOSITY



24 Dec 2021 Diag: Kevin Marson

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. Resample at the next service interval to monitor. 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. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The AN level is acceptable for this fluid. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable. The water concentration level is acceptable for this fluid. The condition of the oil is suitable for further service.



ISO



13 Nov 2019 Diag: Kevin Marson

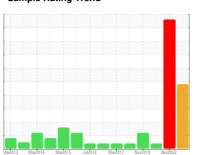
Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. 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. All component wear rates are normal. Particles >14µm are abnormally high. Particles >21µm are notably high. Particles >6µm are notably high. The oil viscosity is lower than normal. The AN level is acceptable for this fluid. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable. The water concentration level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend





[7762481] Machine Id LIFT TABLE

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 perform a filter service, and use offline 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 AN level is acceptable for this fluid. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable. The water concentration level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Vm/2013 Mm/2014 Mm/2015 Jul2016 Mm/2017 Nov2019 Nov2022									
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		WC0741309	WC0741333	WC0566163			
Sample Date		Client Info		03 Oct 2023	13 Nov 2022	24 Dec 2021			
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				SEVERE	SEVERE	ABNORMAL			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185(m)	>20	10	5	2			
Chromium	ppm	ASTM D5185(m)	>20	0	2	0			
Nickel	ppm	ASTM D5185(m)	>20	0	0	<1			
Titanium	ppm	ASTM D5185(m)		0	0	<1			
Silver	ppm	ASTM D5185(m)		<1	<1	<1			
Aluminum	ppm	ASTM D5185(m)	>20	0	1	2			
Lead	ppm	ASTM D5185(m)	>20	0	0	<1			
Copper	ppm	ASTM D5185(m)	>20	0	3	<1			
Tin	ppm	ASTM D5185(m)	>20	0	<1	0			
Antimony	ppm	ASTM D5185(m)		0	0	<1			
Vanadium	ppm	ASTM D5185(m)		0	0	<1			
Beryllium	ppm	ASTM D5185(m)		0	0	0			
Cadmium	ppm	ASTM D5185(m)		0	<1	<1			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185(m)	5	<1	<1	4			
Barium	ppm	ASTM D5185(m)	5	<1	0	<1			
Molybdenum	ppm	ASTM D5185(m)	5	0	1	<1			
Manganese	ppm	ASTM D5185(m)		0	0	<1			
Magnesium	ppm	ASTM D5185(m)	5	<1	1	<1			
Calcium	ppm	ASTM D5185(m)	50	17	3	1			
Phosphorus	ppm	ASTM D5185(m)	175	<1	4	2			
Zinc	ppm	ASTM D5185(m)	62	0	27	1			
Sulfur	ppm	ASTM D5185(m)	500	53	13	12			
Lithium	ppm	ASTM D5185(m)		<1	<1	0			
CONTAMINANTS	;	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185(m)	>15	<1	2	<1			
Sodium	ppm	ASTM D5185(m)		9	24	14			
Potassium	ppm	ASTM D5185(m)	>20	20	57	43			
Water	%	ASTM D6304*	>55	29.6	31.40	32.80			
ppm Water	ppm	ASTM D6304*	>55000	296000	314021.1	328011.3			
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2			
Particles >4µm		ASTM D7647	>5000	96232	1 49390	1900			
Particles >6µm		ASTM D7647	>1300	16373	53513	970			
Particles >14µm		ASTM D7647	>160	▲ 835	5014	120			
Particles >21µm					*	15			
		ASTIVI D/04/	>40	<u> </u>	1200	10			
		ASTM D7647 ASTM D7647	>10	▲ 221 ▲ 23	1288▲ 67	2			
Particles >38µm Particles >71µm				△ 221 △ 23 4					

ISO 4406 (c) >19/17/14 **24/21/17**

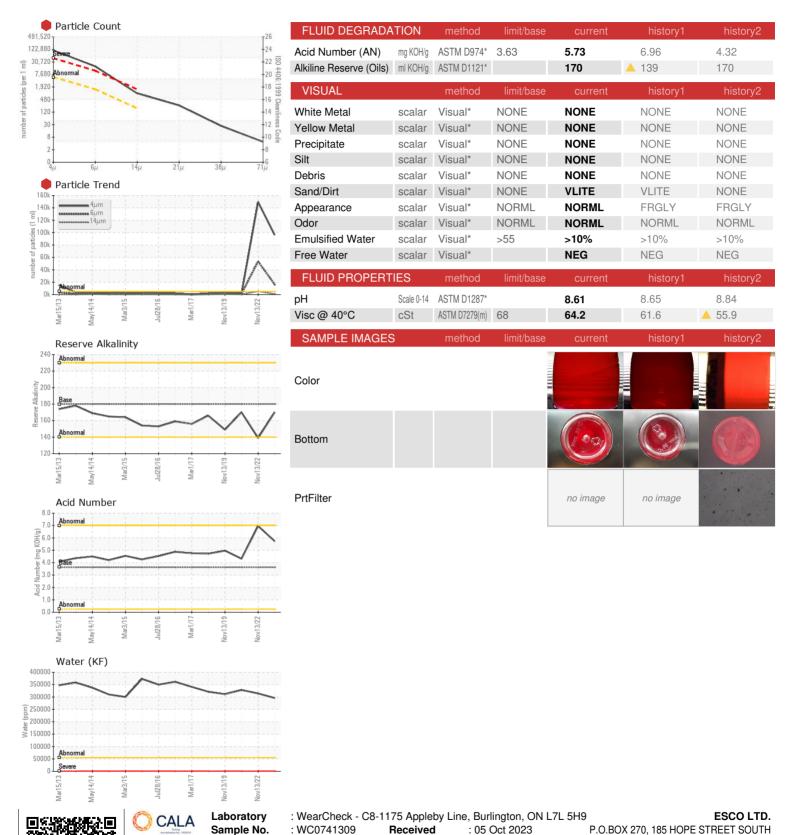
Oil Cleanliness

24/23/20

18/17/14



OIL ANALYSIS REPORT



Report Id: ESCPOR [WCAMIS] 02587350 (Generated: 10/11/2023 07:32:15) Rev: 1

ISO 17025:2017 Accredited Lab Number

Unique Number

: 02587350

: 5656416

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Diagnosed

Test Package : IND 2 (Additional Tests: KF, pH, ReserveAlk, TAN Man)

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.

: 11 Oct 2023

Diagnostician : Kevin Marson

Contact/Location: Paul Dundas - ESCPOR

PORT HOPE, ON

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Contact: Paul Dundas

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