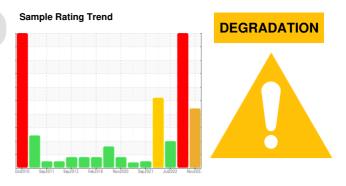


PROBLEM SUMMARY

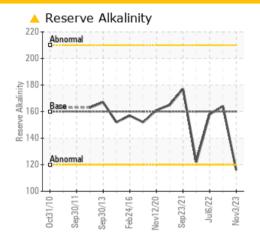
[7892398] Machine Id K-MATIC LIFT TABLE (S/N PH83115)

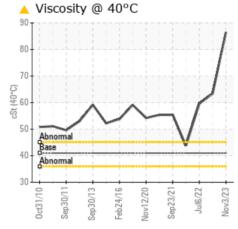
Hydraulic System

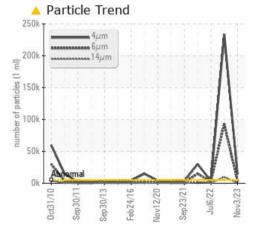
CITGO CITGO GLYCOL FR-40 XD (100 GAL)



COMPONENT CONDITION SUMMARY







RECOMMENDATION

Due to the low reserve alkalinity it is advised that you contact CITGO 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. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST R	ESULTS				
Sample Status			ABNORMAL	SEVERE	ABNORMAL
Particles >4µm	ASTM D7647	>5000	14265	233391	3750
Particles >6μm	ASTM D7647	>1300	3992	93260	<u> </u>
Particles >14µm	ASTM D7647	>160	427	9710	480
Particles >21µm	ASTM D7647	>40	169	2638	△ 60
Particles >38µm	ASTM D7647	>10	△ 34	122	7
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>	25/24/20	1 9/18/16

Customer Id: ESCPOR Sample No.: WC0741311 Lab Number: 02602942 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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Resample			?	We recommend an early resample to monitor this condition.
Contact Required			?	Due to the low reserve alkalinity it is advised that you contact CITGO to assist in restoring the proper amine concentration.
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

02 Mar 2023 Diag: Kevin Marson

iso

We advise that you check all areas where contaminants can enter the system. 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.All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 68 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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



06 Jul 2022 Diag: Kevin Marson





We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. Particles >14µm and oil cleanliness are abnormally high. Particles >21µm are notably high. Particles >6µm are notably high. Viscosity of sample indicates oil is within ISO 68 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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



06 Apr 2022 Diag: Kevin Marson





We advise that you check all areas where contaminants can enter the system. 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.All component wear rates are normal. Particles >14µm are severely high. Particles >6µm are severely high. Particles >21µm are abnormally high. Particles >4µm are abnormally high. Particles >38µm are abnormally high. 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.



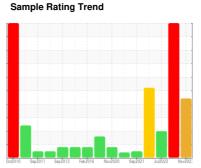


COOLANT REPORT

Area [7892398] K-MATIC LIFT TABLE (S/N PH83115)

Hydraulic System

CITGO CITGO GLYCOL FR-40 XD (100 GAL)





DIAGNOSIS

Recommendation

Due to the low reserve alkalinity it is advised that you contact CITGO 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. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

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

▲ Fluid Condition

The reserve alkalinity of this fluid is lower than acceptable. The pH is low indicating a high acidity of the fluid. Viscosity of sample indicates oil is within ISO 100 range, advise investigate. The AN level is acceptable for this fluid. 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.

•		Oct2010 Se	p2011 Sep2013 Feb201	6 Nov2020 Sep2021 Jul20	22 Nov202:	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0741311	WC0741332	WC0566153
Sample Date		Client Info		03 Nov 2023	02 Mar 2023	06 Jul 2022
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	SEVERE	ABNORMAL
CONTAMINATIO	ON	method	limit/base	current	history1	history2
Water		WC Method	>50	NEG	NEG	NEG
CORROSION INI	HIBITORS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		<1	2	<1
Phosphorus	ppm	ASTM D5185(m)		2	2	<1
Boron	ppm	ASTM D5185(m)		0	2	2
Molybdenum	ppm	ASTM D5185(m)		0	<1	<1
CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	0	3	<1
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	2
Copper	ppm	ASTM D5185(m)	>20	0	3	<1
Lead	ppm	ASTM D5185(m)	>20	0	4	<1
Tin	ppm	ASTM D5185(m)	>20	0	<1	0
Silver	ppm	ASTM D5185(m)		<1	<1	<1
Zinc	ppm	ASTM D5185(m)		0	3	1
CONTAMINANT	S	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	14265	233391	3750
Particles >6µm		ASTM D7647	>1300	△ 3992	93260	<u></u> 1900
Particles >14μm		ASTM D7647	>160	427	9710	480
Particles >21μm		ASTM D7647	>40	169	2638	6 0
Particles >38µm		ASTM D7647	>10	4 34	122	7
Particles >71µm		ASTM D7647	>3	0	<u> </u>	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	2 1/19/16	25/24/20	1 9/18/16
CARRIER SALT	S	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		10	14	14
Potassium	ppm	ASTM D5185(m)		27	62	45
SCALE POTENT	ΓIAL	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)		<1	5	<1
Magnesium	ppm	ASTM D5185(m)		<1	1	1



COOLANT REPORT

