

PROBLEM SUMMARY

Sample Rating Trend

CONTAMINANT



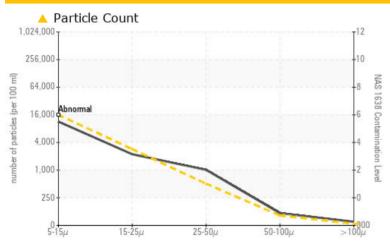
C-GEZO BLUE

Component

Hydraulic System

SKYDROL LD-4 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC T	EST RE	SULTS			
Sample Status				ABNORMAL	
Chlorine Content	ppm	NAA Method*		<u>^</u> 208	
Particles 25-50µm	count	NAS 1638	>505	<u> </u>	
Particles 50-100µm	count	NAS 1638	>89	<u> 111</u>	
Particles >100μm	count	NAS 1638	>15	4 33	

Customer Id: KELMOU Sample No.: PP Lab Number: 02523229 Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data: Bill Quesnel CLS,OMA II,MLA-III,LLA-I +1 (289)291-4641 x4641

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

RECOMMENDE	D ACTIONS			
Action	Status	Date	Done By	Description
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.
Resample			?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT



CONTAMINANT



C-GEZO BLUE

Hydraulic System

SKYDROL LD-4 (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Chlorine Content contamination levels are abnormal. Particles >100µm are abnormally high. Particles 25-50µm are abnormally high. Particles 50-100µm are abnormally high. The water content is negligible. The system cleanliness is above the acceptable limit for the target SAE AS4059 (replaces NAS 1638) cleanliness code.

Fluid Condition

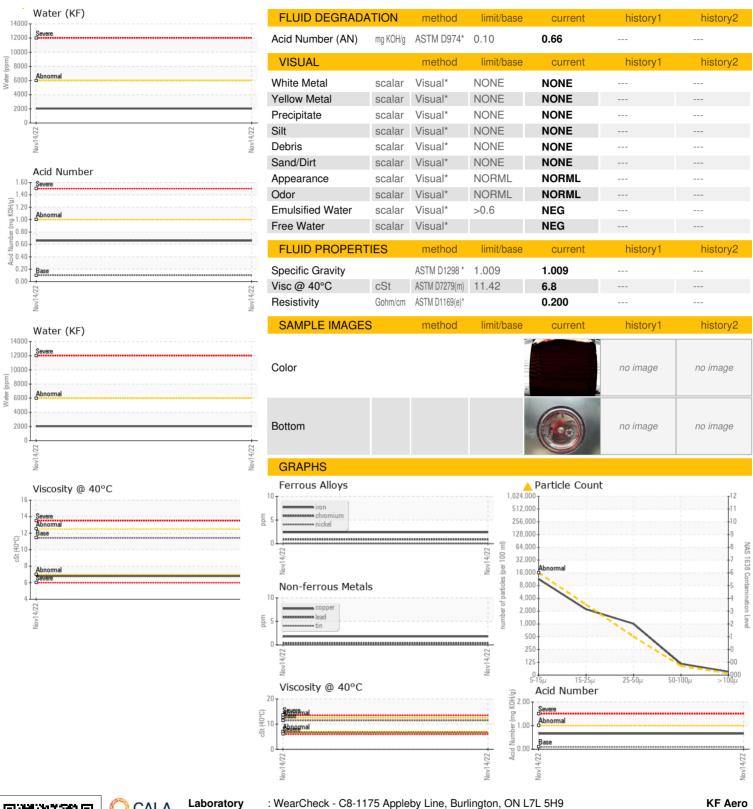
The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION method limit/base current history1 history2 Sample Number Client Info PP Sample Date Client Info 0 Oll Age hrs Client Info 0 Oil Changed Client Info N/A Sample Status method limit/base current history1 history2 Iron ppm ASTMD5185(m) >20 2 Chromium ppm ASTMD5185(m) >20 2 Nickel ppm ASTMD5185(m) >20 0 Silver ppm ASTMD5185(m) >20 <1 Lead ppm ASTMD5185(m) >20 <1 Copper ppm ASTMD5185(m) >20 2 Tin ppm ASTMD518					Nov2022		
Sample Number Client Info PP Sample Date Client Info 14 Nov 2022 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Changed Client Info N/A Sample Status Method limit/base current history1 history2 Iron ppm ASTM D5185/m >20 2 Nickel ppm ASTM D5185/m >20 2 Nickel ppm ASTM D5185/m >20 0 Alluminum ppm ASTM D5185/m >20 0 Lead ppm ASTM D5185/m >20 <1 Copper ppm ASTM D5185/m >20 0 Tin ppm ASTM D5185/m >20 0 </th <th>CAMPLE INFORM</th> <th>AATIONI</th> <th></th> <th></th> <th></th> <th></th> <th>1111</th>	CAMPLE INFORM	AATIONI					1111
Sample Date Client Info 0	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0	Sample Number		Client Info		PP		
Oil Age hrs Client Info N/A	Sample Date		Client Info		14 Nov 2022		
Oil Changed Sample Status Client Info N/A	Machine Age	hrs	Client Info		0		
Sample Status	Oil Age	hrs	Client Info		0		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >20 2 Nickel ppm ASTM D5185(m) >20 0 Nickel ppm ASTM D5185(m) >20 0 Silver ppm ASTM D5185(m) >20 <1	Oil Changed		Client Info				
Iron	Sample Status				ABNORMAL		
Chromium ppm ASTM D5185(m) >20 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185(m)	>20	2		
Titanium	Chromium	ppm	ASTM D5185(m)	>20	<1		
Silver	Nickel	ppm	ASTM D5185(m)	>20	0		
Aluminum ppm ASTM D5185(m) >20 <1	Titanium	ppm	ASTM D5185(m)		0		
Lead ppm ASTM D5185(m) >20 <1	Silver	ppm	ASTM D5185(m)		0		
Copper ppm ASTM D5185(m) >20 2 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) 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 0 Barium ppm ASTM D5185(m) 0 0 Molybdenum ppm ASTM D5185(m) 0 0 Manganesium ppm ASTM D5185(m) 0 17 Calcium ppm ASTM D5185(m) 0 17	Aluminum	ppm	ASTM D5185(m)	>20	<1		
Tin	Lead	ppm	ASTM D5185(m)	>20	<1		
Antimony ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 0 Barium ppm ASTM D5185(m) 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 Manganesium ppm ASTM D5185(m) 0 0 0 Calcium ppm ASTM D5185(m) 0 0 17 Phosphorus ppm ASTM D5185(m) 0 17 Sulfur ppm ASTM D5185(m) 0 4 Sulfur ppm ASTM D5185(m) 0 1343 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) 3 Sodium ppm ASTM D5185(m) 3 Potassium ppm ASTM D5185(m) 3 Sodium ppm ASTM D5185(m) 3 Fullo Cleanliness ISO 4406 (c) >6 16/15/12 Fullo Cleanliness ISO 4406 (c) >6 16/15/12 Particles 5-15µm count NAS 1638 >15999 11422	Copper	ppm	ASTM D5185(m)	>20	2		
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Beryllium	Antimony	ppm	ASTM D5185(m)		0		
Cadmium ppm ASTM D5185(m) 17 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 4 Barium ppm ASTM D5185(m) 0 0 Molybdenum ppm ASTM D5185(m) 0 0 Manganese ppm ASTM D5185(m) 0 <1	Vanadium	ppm	ASTM D5185(m)		0		
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Boron	Cadmium	ppm	ASTM D5185(m)		17		
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Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0 <1	Barium	ppm	ASTM D5185(m)	0	0		
Magnesium ppm ASTM D5185(m) 0 <1 Calcium ppm ASTM D5185(m) 0 17 Phosphorus ppm ASTM D5185(m) 20000 27598 Zinc ppm ASTM D5185(m) 0 4 Sulfur ppm ASTM D5185(m) 1900 1343 Lithium ppm ASTM D5185(m) 1900 1343 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 2 Sodium ppm ASTM D5185(m) 3 Potassium ppm ASTM D5185(m) >20 23 Chlorine Content ppm NAA Method* △ 208 Water % ASTM D6304*							
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Phosphorus ppm ASTM D5185(m) 20000 27598 Zinc ppm ASTM D5185(m) 0 4 Sulfur ppm ASTM D5185(m) 1900 1343 Lithium ppm ASTM D5185(m) <1	Molybdenum Manganese		. ,	0			
Zinc	•	ppm	ASTM D5185(m)		0		
Sulfur ppm ASTM D5185(m) 1900 1343 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 2 Sodium ppm ASTM D5185(m) >20 23 Potassium ppm ASTM D5185(m) >20 23 Chlorine Content ppm NAA Method* 208 Water % ASTM D6304* >0.6 0.203 ppm Water ppm ASTM D6304* >6000 2033.5 FLUID CLEANLINESS method limit/base current history1 history2 Oil Cleanliness ISO 4406 (c) >6 16/15/12 Particles 5-15µm count NAS 1638 >159	Manganese	ppm ppm	ASTM D5185(m) ASTM D5185(m)	0	0 <1		
Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 2 Sodium ppm ASTM D5185(m) >20 23 Potassium ppm NAA Method* ▲ 208 Chlorine Content ppm NAA Method* ▲ 208 Water % ASTM D6304* >0.6 0.203 ppm Water ppm ASTM D6304* >6000 2033.5 FLUID CLEANLINESS method limit/base current history1 history2 Oil Cleanliness ISO 4406 (c) >6 16/15/12 Particles 5-15µm count NAS 1638 >15999 11422	Manganese Magnesium	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0	0 <1 17		
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Silicon ppm ASTM D5185(m) >15 2 Sodium ppm ASTM D5185(m) 3 Potassium ppm ASTM D5185(m) >20 23 Chlorine Content ppm NAA Method* 208 Water % ASTM D6304* >0.6 0.203 ppm Water ppm ASTM D6304* >6000 2033.5 FLUID CLEANLINESS method limit/base current history1 history2 Oil Cleanliness ISO 4406 (c) >6 16/15/12 Particles 5-15µm count NAS 1638 >15999 11422	Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 20000 0	0 <1 17 27598		
Sodium ppm ASTM D5185(m) 3 Potassium ppm ASTM D5185(m) >20 23 Chlorine Content ppm NAA Method* ▲ 208 Water % ASTM D6304* >0.6 0.203 ppm Water ppm ASTM D6304* >6000 2033.5 FLUID CLEANLINESS method limit/base current history1 history2 Oil Cleanliness ISO 4406 (c) >6 16/15/12 Particles 5-15µm count NAS 1638 >15999 11422	Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 20000 0	0 <1 17 27598 4 1343		
Sodium ppm ASTM D5185(m) 3 Potassium ppm ASTM D5185(m) >20 23 Chlorine Content ppm NAA Method* ▲ 208 Water % ASTM D6304* >0.6 0.203 ppm Water ppm ASTM D6304* >6000 2033.5 FLUID CLEANLINESS method limit/base current history1 history2 Oil Cleanliness ISO 4406 (c) >6 16/15/12 Particles 5-15µm count NAS 1638 >15999 11422	Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 20000 0 1900	0 <1 17 27598 4 1343 <1		
Potassium ppm ASTM D5185(m) >20 23 Chlorine Content ppm NAA Method* ▲ 208 Water % ASTM D6304* >0.6 0.203 ppm Water ppm ASTM D6304* >6000 2033.5 FLUID CLEANLINESS method limit/base current history1 history2 Oil Cleanliness ISO 4406 (c) >6 16/15/12 Particles 5-15μm count NAS 1638 >15999 11422	Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method	0 0 20000 0 1900	0 <1 17 27598 4 1343 <1	 history1	 history2
Chlorine Content ppm NAA Method* ≥ 208 Water % ASTM D6304* >0.6 0.203 ppm Water ppm ASTM D6304* >6000 2033.5 FLUID CLEANLINESS method limit/base current history1 history2 Oil Cleanliness ISO 4406 (c) >6 16/15/12 Particles 5-15μm count NAS 1638 >15999 11422	Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) METHOD METHOD ASTM D5185(m)	0 0 20000 0 1900	0 <1 17 27598 4 1343 <1 current 2	 history1	 history2
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ppm Water ppm ASTM D6304* >6000 2033.5 FLUID CLEANLINESS method limit/base current history1 history2 Oil Cleanliness ISO 4406 (c) >6 16/15/12 Particles 5-15μm count NAS 1638 >15999 11422	Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) Method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 20000 0 1900 limit/base >15	0 <1 17 27598 4 1343 <1 current 2 3 23	 history1	 history2
Oil Cleanliness ISO 4406 (c) >6 16/15/12 Particles 5-15μm count NAS 1638 >15999 11422	Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Chlorine Content	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) METHOD METHOD ASTM D5185(m) NAA Method*	0 0 20000 0 1900 limit/base >15 >20	0 <1 17 27598 4 1343 <1 current 2 3 23	history1	history2
Particles 5-15μm count NAS 1638 >15999 11422	Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Chlorine Content	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 20000 0 1900 limit/base >15 >20 >0.6	0 <1 17 27598 4 1343 <1 current 2 3 23 208 0.203	history1	history2
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	Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Chlorine Content Water ppm Water FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) MASTM D5185(m) METHOD ASTM D5185(m) ASTM D6304* ASTM D6304* MASTM D6304*	0 0 20000 0 1900 limit/base >15 >20 >0.6 >6000 limit/base	0 <1 17 27598 4 1343 <1 current 2 3 23 ▲ 208 0.203 2033.5 current	history1 history1	history2 history2
·	Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Chlorine Content Water ppm Water FLUID CLEANLIN Oil Cleanliness	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) METHOD METHOD ASTM D5185(m) ASTM D6304* ASTM D6304* MACHOD ASTM D6304* METHOD ISO 4406 (c)	0 0 20000 0 1900 limit/base >15 >20 >0.6 >6000 limit/base >6	0 <1 17 27598 4 1343 <1 current 2 3 23	history1 history1 history1	history2 history2 history2
Particles 25-50µm count NAS 1638 >505 1013	Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Chlorine Content Water ppm Water FLUID CLEANLIN	ppm	ASTM D5185(m) METHOD METHOD ASTM D5185(m) INAA Method* ASTM D6304* ASTM D6304* METHOD ISO 4406 (c) ISO 4406 (c) ISO 4406 (d)	0 0 20000 0 1900 limit/base >15 >20 >0.6 >6000 limit/base >6 >15999	0 <1 17 27598 4 1343 <1 current 2 3 23 208 0.203 2033.5 current 16/15/12 11422	history1 history1 history1	history2 history2
	Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Chlorine Content Water ppm Water FLUID CLEANLIN Oil Cleanliness Particles 5-15µm Particles 15-25µm	ppm	ASTM D5185(m) ASTM D5185(m) METHOD ASTM D5185(m) NAA Method* ASTM D6304* ASTM D6304* METHOD ISO 4406 (c) NAS 1638 NAS 1638	0 0 20000 0 1900 limit/base >15 >20 >0.6 >6000 limit/base >6 >15999 >2849	0 <1 17 27598 4 1343 <1 current 2 3 23 208 0.203 2033.5 current 16/15/12 11422 2221	history1 history1	history2 history2
	Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Chlorine Content Water ppm Water FLUID CLEANLIN Oil Cleanliness Particles 5-15µm Particles 25-50µm	ppm	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 D5185(m) ASTM D6304* ASTM D6304* ASTM D6304* ISO 4406 (c) NAS 1638 NAS 1638 NAS 1638	0 0 20000 0 1900 limit/base >15 >20 >0.6 >6000 limit/base >6 >15999 >2849 >505	0 <1 17 27598 4 1343 <1 current 2 3 23	history1 history1	history2 history2
raticles > 100µm Count NAS 1030 > 13	Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Chlorine Content Water ppm Water FLUID CLEANLIN Oil Cleanliness Particles 5-15µm Particles 15-25µm Particles 25-50µm Particles 50-100µm	ppm	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 D5185(m) ASTM D6304* ASTM D6304* ASTM D6304* ISO 4406 (c) NAS 1638 NAS 1638 NAS 1638	0 0 20000 0 1900 limit/base >15 >20 >0.6 >6000 limit/base >6 >15999 >2849 >505	0 <1 17 27598 4 1343 <1 current 2 3 23	history1 history1	history2 history2
Faticles >100µm count 1030 >15	Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Chlorine Content Water ppm Water FLUID CLEANLIN Oil Cleanliness Particles 5-15µm Particles 25-50µm	ppm	ASTM D5185(m) METHOD ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* ASTM D6304* D6304* ASTM D6304*	0 0 20000 0 1900 limit/base >15 >20 >0.6 >6000 limit/base >6 >15999 >2849 >505 >89	0	history1 history1	history2 history2

Contact/Location: Helen Krzywicki - KELMOU



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: PP : 02523229

: 5488210 Test Package

Received Diagnosed

: 02 Dec 2022

: 17 Nov 2022

Diagnostician : Bill Quesnel : IND 2 (Additional Tests: ChlorineXRF, KF, PrtCountNAS, Resistivity, SpecGravity, TAN Man) Contact: Helen Krzywicki

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

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