

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

QC230213IND2

Component Hydraulic System Fluid AW HYDRAULIC OIL 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. 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.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



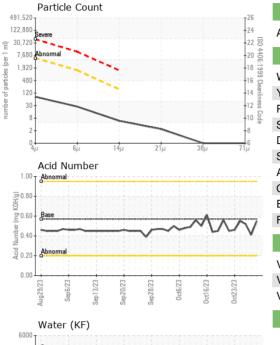


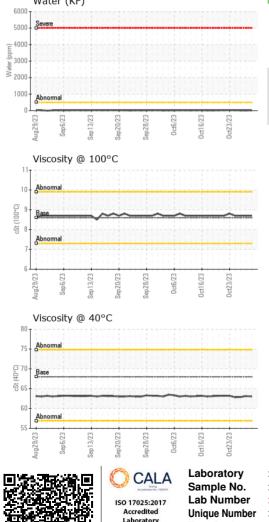
2023 Sep2023 Sep2023 Sep2023 Sep2023 Oct2023 Oct2023 Oct2023 Oct2023

Sample Date Client Info 27 Oct 2023 26 Oct 2023 25 Oct 2023 Machine Age hrs Client Info 0 0 0 Oll Age hrs Client Info 0 0 0 Oll Changed Client Info 0 0 0 0 Sample Status Imit/base current history1 history2 VerAR METALS method Imit/base current history1 history2 from ppm ASTM D585(m) >20 0 0 0 Nickel ppm ASTM D585(m) >20 0 0 0 Riked ppm ASTM D585(m) >20 0 0 0 Riked ppm ASTM D585(m) >20 <1 1 0 Cardinum ppm ASTM D585(m) >20 <1 <1 0 Astm D585(m) >20 <1 <1 <1 0 0 Astm D585(m) >20	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine AgehrsClient Info000Dil AgehrsClient Info000Dil GhangedClient InfoN/AN/AN/ASample StatusImitableNORMALNORMALNORMALWEAR METALSmethodimitablescurrenthistory1history2IronppmASTMD515(m)>20000DhroniumppmASTMD515(m)>20000NickelppmASTMD515(m)>20000SilverppmASTMD515(m)>20000LeadppmASTMD515(m)>20<110CopperppmASTMD515(m)>20<110CanadimppmASTMD515(m)>20000AntimonyppmASTMD515(m)0000AntimonyppmASTMD515(m)0000AbardiumppmASTMD515(m)0000AbardiumppmASTMD515(m)0000AbardiumppmASTMD515(m)5<1<1<1AbardiumppmASTMD515(m)5000AbardiumppmASTMD515(m)5000AbardiumppmASTMD515(m)20000AbardiumppmASTMD515(m)250000	Sample Number		Client Info		WC0865594	WC0865593	WC0865592
Dil Age hrs Client Info 0 0 0 Dil Changed Client Info N/A N/A N/A N/A Sample Status method imit/base current history1 NoRMAL NORMAL WEAR METALS method imit/base current history1 history1 fron ppm ASTM 05185(m) >20 0 0 0 Nickel ppm ASTM 05185(m) >20 0 0 0 Silver ppm ASTM 05185(m) >20 0 0 0 Silver ppm ASTM 05185(m) >20 <1 1 0 Copper ppm ASTM 05185(m) >20 <1 1 0 Vanadium ppm ASTM 05185(m) >20 <1 <1 0 Vanadium ppm ASTM 05185(m) >0 0 0 0 Vanadium ppm ASTM 05185(m) 5 <1 <1	Sample Date		Client Info		27 Oct 2023	26 Oct 2023	25 Oct 2023
Cili Changed Client Info N/A N/A N/A N/A Sample Status method limit/base current history1 history2 VeAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >20 0 0 0 Chromium ppm ASTM D5185(m) >20 0 0 0 Nickel ppm ASTM D5185(m) >20 0 0 0 Silver ppm ASTM D5185(m) >20 c1 1 0 Copper ppm ASTM D5185(m) >20 c1 1 0 Cadd ppm ASTM D5185(m) >20 0 0 0 Vanadium ppm ASTM D5185(m) 20 0 0 0 Cadmium ppm ASTM D5185(m) 5 <1	Machine Age	hrs	Client Info		0	0	0
Sample Status NORMAL NORMAL NORMAL NORMAL NORMAL WEAR METALS method limit/bass current history1 history2 Iron ppm ASTM 05185(m) >20 0 0 0 Chromium ppm ASTM 05185(m) >20 0 0 0 Nickel ppm ASTM 05185(m) >20 0 0 0 Titanium ppm ASTM 05185(m) >20 0 0 0 Silver ppm ASTM 05185(m) >20 c1 1 0 Copper ppm ASTM 05185(m) >20 c1 1 0 Vanadium ppm ASTM 05185(m) >20 c1 1 0 Capper ppm ASTM 05185(m) 0 0 0 0 Adationum ppm ASTM 05185(m) 0 0 0 0 Adationum ppm ASTM 05185(m) 5 c1	Oil Age	hrs	Client Info		0	0	0
WEAR METALS method limit/base current history1 history2 fron ppm ASTM 0588(m) >20 0 0 0 Nickel ppm ASTM 0588(m) >20 0 0 0 Nickel ppm ASTM 0588(m) >20 0 0 0 Silver ppm ASTM 0588(m) >20 0 0 0 Lead ppm ASTM 0588(m) >20 -1 1 0 Copper ppm ASTM 0588(m) >20 -1 1 0 Copper ppm ASTM 0588(m) >20 0 0 0 Antimony ppm ASTM 0588(m) 0 0 0 0 Abitions pm ASTM 0588(m) 0 0 0 0 Abition pm ASTM 0588(m) 5 -1 <1 <1 Bary pm ASTM 0588(m) 5 0 0 <td< th=""><th>Oil Changed</th><th></th><th>Client Info</th><th></th><th>N/A</th><th>N/A</th><th>N/A</th></td<>	Oil Changed		Client Info		N/A	N/A	N/A
ron ppm ASTM D5185(m) >20 0 0 0 Chromium ppm ASTM D5185(m) >20 0 0 0 Nickel ppm ASTM D5185(m) <0 0 0 0 Silver ppm ASTM D5185(m) <1 <1 <1 <1 Aluminum ppm ASTM D5185(m) >20 <1 1 0 0 Lead ppm ASTM D5185(m) >20 <1 <1 0 0 Copper ppm ASTM D5185(m) >20 <1 <1 0 0 Vanadum ppm ASTM D5185(m) >20 0 0 0 0 Cadmium ppm ASTM D5185(m) >0 0 0 0 0 ASTM D5185(m) 5 <1 <1 <1 <1 <1 Cadmium ppm ASTM D5185(m) 5 0 0 0 Borium <t< th=""><th>Sample Status</th><th></th><th></th><th></th><th>NORMAL</th><th>NORMAL</th><th>NORMAL</th></t<>	Sample Status				NORMAL	NORMAL	NORMAL
Dromium ppm ASTM D5185(m) >20 0 0 0 Nickel ppm ASTM D5185(m) 0 0 0 0 Silver ppm ASTM D5185(m) <1 <1 <1 <1 Aluminum ppm ASTM D5185(m) >20 0 0 0 Lead ppm ASTM D5185(m) >20 <1 1 0 Copper ppm ASTM D5185(m) >20 <1 <1 0 Antimony ppm ASTM D5185(m) >20 0 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 0 0 ASTM D5185(m) 5 <1 <1 <1 <1 1 Barium ppm ASTM D5185(m) 5 <1 <1 <1 <1 Barium ppm ASTM D5185(m) 5 0 0 0 0 Molybdenum ppm	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185(m) >20 0 0 0 Titanium ppm ASTM D5185(m)	Iron	ppm	ASTM D5185(m)	>20	0	0	0
Titanium ppm ASTM D5185(m) 0 0 0 Silver ppm ASTM D5185(m) <1 <1 <1 Aluminum ppm ASTM D5185(m) >20 0 0 0 Lead ppm ASTM D5185(m) >20 <1 1 0 Copper ppm ASTM D5185(m) >20 <1 <1 0 Copper ppm ASTM D5185(m) >20 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 ADDITVES method limit/base current history1 history2 Barium ppm ASTM D5185(m) 5 <1 <1 <1 Barium ppm ASTM D5185(m) 25 0 0 0 Molybdenum pm ASTM D5185(m) 25 0 0 0	Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Silver ppm ASTM D5185(m) <1	Nickel	ppm	ASTM D5185(m)	>20	0	0	0
Aluminum ppm ASTM D5185(m) >20 0 0 0 Lead ppm ASTM D5185(m) >20 <1 1 0 Copper ppm ASTM D5185(m) >20 <1 <1 0 Antimony ppm ASTM D5185(m) 0 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 ADDITIVES method Imit/base current history1 history2 Boron ppm ASTM D5185(m) 5 <1 <1 <1 0 Maganesium ppm ASTM D5185(m) 5 <1 <1 <1 0 Maganesium ppm ASTM D5185(m) 25 0 0 0 0 Calcium ppm ASTM D	Titanium	ppm	ASTM D5185(m)		0	0	0
Lead ppm ASTM D5185(m) >20 <1	Silver	ppm	ASTM D5185(m)		<1	<1	<1
Copper ppm ASTM D5188(m) >20 <1	Aluminum	ppm	ASTM D5185(m)	>20	0	0	0
Tin ppm ASTM D5185(m) >20 0 0 0 Antimony ppm ASTM D5185(m) 0 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 5 <1 <1 <1 0 Molydenum ppm ASTM D5185(m) 5 0 0 0 0 Magnesium ppm ASTM D5185(m) 25 0 0 0 0 Calcium ppm ASTM D5185(m) 250 0 0 0 0 Sulfur ppm ASTM D5185(m) 2500 680 696 696 Lithium ppm ASTM D5185(m) 2500 680 696 696 Silicon <td< th=""><td>Lead</td><td>ppm</td><td>ASTM D5185(m)</td><td>>20</td><th><1</th><td>1</td><td>0</td></td<>	Lead	ppm	ASTM D5185(m)	>20	<1	1	0
Antimony ppm ASTM D5185(m) 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 5 <1 <1 <1 Barium ppm ASTM D5185(m) 5 <1 <1 0 Molybdenum ppm ASTM D5185(m) 5 0 0 0 Maganese ppm ASTM D5185(m) 25 0 0 0 Calcium ppm ASTM D5185(m) 200 42 42 47 Phosphorus ppm ASTM D5185(m) 370 410 406 422 Sulfur ppm ASTM D5185(m) 2500 680 696 696 Lithium ppm ASTM D5185(m) >10 0 0 0	Copper	ppm	ASTM D5185(m)	>20	<1	<1	0
Vanadium ppm ASTM D5185(m) 0 0 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 5 <1 <1 <1 Barium ppm ASTM D5185(m) 5 <1 <1 0 Molybdenum ppm ASTM D5185(m) 5 0 0 0 Maganese ppm ASTM D5185(m) 25 0 0 0 Magnesium ppm ASTM D5185(m) 200 42 42 47 Phosphorus ppm ASTM D5185(m) 200 42 42 47 Sulfur ppm ASTM D5185(m) 200 42 42 47 Sulfur ppm ASTM D5185(m) 200 680 696 696 Lithium ppm ASTM D5185(m) 250	Tin	ppm	ASTM D5185(m)	>20	0	0	0
Beryllium ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 5 <1 <1 <1 Barium ppm ASTM D5185(m) 5 <1 <1 0 Maganese ppm ASTM D5185(m) 5 0 0 0 Maganesium ppm ASTM D5185(m) 25 0 0 0 Maganesium ppm ASTM D5185(m) 200 42 42 47 Phosphorus ppm ASTM D5185(m) 300 327 328 338 Zinc ppm ASTM D5185(m) 370 410 406 422 Sulfur ppm ASTM D5185(m) 2500 680 696 696 Lithium ppm ASTM D5185(m) >15	Antimony	ppm	ASTM D5185(m)		0	0	0
Cadmium ppm ASTM D5185(m) 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 5 <1	Vanadium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 5 <1 <1 <1 <1 Barium ppm ASTM D5185(m) 5 <1 <1 <1 0 Molybdenum ppm ASTM D5185(m) 5 0 0 0 Manganese ppm ASTM D5185(m) 25 0 0 0 Magnesium ppm ASTM D5185(m) 200 42 42 47 Phosphorus ppm ASTM D5185(m) 300 3277 328 338 Zinc ppm ASTM D5185(m) 370 410 406 422 Sulfur ppm ASTM D5185(m) 2500 680 696 696 Lithium ppm ASTM D5185(m) >15 0 0 0 Soldium ppm ASTM D5185(m) >20 0 <11 20 Potassium ppm	Beryllium	ppm	ASTM D5185(m)		0	0	0
Boron ppm ASTM D5185(m) 5 <1	Cadmium	ppm	ASTM D5185(m)		0	0	0
Barium ppm ASTM D5185(m) 5 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185(m) 5 0 0 0 Manganese ppm ASTM D5185(m) 25 0 0 0 Magnesium ppm ASTM D5185(m) 25 0 0 0 Calcium ppm ASTM D5185(m) 200 42 42 47 Phosphorus ppm ASTM D5185(m) 300 3277 328 338 Zinc ppm ASTM D5185(m) 370 410 406 422 Sulfur ppm ASTM D5185(m) 370 410 406 422 Sulfur ppm ASTM D5185(m) 2500 680 696 696 Lithium ppm ASTM D5185(m) 2500 680 696 0 Silicon ppm ASTM D5185(m) >15 0 0 0 Potassium ppm ASTM D5035(m) >20 0 <11 0 Water % ASTM D6304' <td< th=""><td>Boron</td><td>ppm</td><td>ASTM D5185(m)</td><td>5</td><th><1</th><td><1</td><td><1</td></td<>	Boron	ppm	ASTM D5185(m)	5	<1	<1	<1
Maganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 25 0 0 0 Calcium ppm ASTM D5185(m) 200 42 42 47 Phosphorus ppm ASTM D5185(m) 300 327 328 338 Zinc ppm ASTM D5185(m) 370 410 406 422 Sulfur ppm ASTM D5185(m) 370 410 406 422 Sulfur ppm ASTM D5185(m) 2500 680 696 696 Lithium ppm ASTM D5185(m) 2500 680 696 696 Silicon ppm ASTM D5185(m) 250 680 0 0 0 Sodium ppm ASTM D5185(m) >15 0 0 0 0 Potassium ppm ASTM D5185(m) >20 0 <1 0 0 0	Barium	ppm	ASTM D5185(m)	5	<1	<1	0
Magnesium ppm ASTM D5185(m) 25 0 0 0 Calcium ppm ASTM D5185(m) 200 42 42 47 Phosphorus ppm ASTM D5185(m) 300 327 328 338 Zinc ppm ASTM D5185(m) 370 410 406 422 Sulfur ppm ASTM D5185(m) 370 410 406 422 Sulfur ppm ASTM D5185(m) 2500 680 696 696 Lithium ppm ASTM D5185(m) 2500 680 696 696 Silicon ppm ASTM D5185(m) 250 680 0 0 0 Sodium ppm ASTM D5185(m) 250 680 0 0 0 Sodium ppm ASTM D5185(m) >15 0 0 0 0 Vater % ASTM D6304* >0.05 0.001 0.001 0.001 0.001 <t< th=""><td>Molybdenum</td><td>ppm</td><td>ASTM D5185(m)</td><td>5</td><th>0</th><td>0</td><td>0</td></t<>	Molybdenum	ppm	ASTM D5185(m)	5	0	0	0
Calcium ppm ASTM D5185(m) 200 42 42 47 Phosphorus ppm ASTM D5185(m) 300 327 328 338 Zinc ppm ASTM D5185(m) 370 410 406 422 Sulfur ppm ASTM D5185(m) 2500 680 696 696 Lithium ppm ASTM D5185(m) 2500 680 696 696 Lithium ppm ASTM D5185(m) 2500 680 696 696 Silicon ppm ASTM D5185(m) 2500 680 0 0 0 Sodium ppm ASTM D5185(m) >15 0 <td>Manganese</td> <td>ppm</td> <td>ASTM D5185(m)</td> <td></td> <th>0</th> <td>0</td> <td>0</td>	Manganese	ppm	ASTM D5185(m)		0	0	0
Phosphorus ppm ASTM D5185(m) 300 327 328 338 Zinc ppm ASTM D5185(m) 370 410 406 422 Sulfur ppm ASTM D5185(m) 2500 680 696 696 Lithium ppm ASTM D5185(m) 2500 680 696 696 Lithium ppm ASTM D5185(m) 2500 680 696 696 Lithium ppm ASTM D5185(m) 2500 680 696 696 Solicon ppm ASTM D5185(m) 20 0 0 0 Sodium ppm ASTM D5185(m) >20 0 <1 0 Potassium ppm ASTM D6304* >0.05 0.001 0.001 0.001 opm Water pm ASTM D6304* >500 13.6 13.4 12.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D	Magnesium	ppm	ASTM D5185(m)				0
Zinc ppm ASTM D5185(m) 370 410 406 422 Sulfur ppm ASTM D5185(m) 2500 680 696 696 Lithium ppm ASTM D5185(m) 2500 680 696 696 Lithium ppm ASTM D5185(m) 2500 680 696 696 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 0 0 0 Sodium ppm ASTM D5185(m) >20 0 <1 0 Potassium ppm ASTM D5185(m) >20 0 <1 0 Water % ASTM D6304* >0.05 0.001 0.001 0.001 opm Water ppm ASTM D6304* >500 13.6 13.4 12.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647		ppm	ASTM D5185(m)	200	42		
Sulfur ppm ASTM D5185(m) 2500 680 696 696 Lithium ppm ASTM D5185(m) <1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 0 0 0 Sodium ppm ASTM D5185(m) >15 0 0 0 Sodium ppm ASTM D5185(m) >15 0 0 0 Potassium ppm ASTM D5185(m) >20 0 <1 0 Water % ASTM D6304* >0.05 0.001 0.001 0.001 opm Water ppm ASTM D6304* >500 13.6 13.4 12.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 71 54 85 Particles >6µm ASTM D7647 >1300	Phosphorus	ppm			-		
Lithium ppm ASTM D5185(m) <1	Zinc	ppm	ASTM D5185(m)	370	-		
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>15000SodiumppmASTM D5185(m)0000PotassiumppmASTM D5185(m)>200<10Water%ASTM D6304*>0.050.0010.0010.001opm WaterppmASTM D6304*>50013.613.412.7FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles >4µmASTM D7647>5000715485Particles >6µmASTM D7647>1300241833Particles >14µmASTM D7647>160545Particles >21µmASTM D7647>10000Particles >71µmASTM D7647>3000	Sulfur	ppm	ASTM D5185(m)	2500		696	696
Silicon ppm ASTM D5185(m) >15 0 0 0 Sodium ppm ASTM D5185(m) 0 0 0 0 Potassium ppm ASTM D5185(m) >20 0 <1 0 Water % ASTM D6304* >0.05 0.001 0.001 0.001 opm Water ppm ASTM D6304* >500 13.6 13.4 12.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 71 54 85 Particles >6µm ASTM D7647 >1300 24 18 33 Particles >14µm ASTM D7647 >160 5 4 5 Particles >21µm ASTM D7647 >10 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
Sodium ppm ASTM D5185(m) 0 0 0 0 Potassium ppm ASTM D5185(m) >20 0 <1 0 Water % ASTM D6304* >0.05 0.001 0.001 0.001 opm Water ppm ASTM D6304* >500 13.6 13.4 12.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 71 54 85 Particles >6µm ASTM D7647 >1300 24 18 33 Particles >14µm ASTM D7647 >160 5 4 5 Particles >21µm ASTM D7647 >10 0 0 0 Particles >38µm ASTM D7647 >3 0 0 0	CONTAMINANTS	3	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185(m) >20 0 <1	Silicon	ppm	()			0	0
Water % ASTM D6304* >0.05 0.001 0.001 0.001 opm Water ppm ASTM D6304* >500 13.6 13.4 12.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 71 54 85 Particles >6µm ASTM D7647 >1300 24 18 33 Particles >6µm ASTM D7647 >160 5 4 5 Particles >14µm ASTM D7647 >40 2 1 2 Particles >21µm ASTM D7647 >10 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0	Sodium	ppm	ASTM D5185(m)		0	0	0
oppm Water ppm ASTM D6304* >500 13.6 13.4 12.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 71 54 85 Particles >6µm ASTM D7647 >1300 24 18 33 Particles >14µm ASTM D7647 >160 5 4 5 Particles >14µm ASTM D7647 >40 2 1 2 Particles >21µm ASTM D7647 >10 0 0 0 Particles >38µm ASTM D7647 >3 0 0 0	Potassium				0		
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >5000 71 54 85 Particles >6μm ASTM D7647 >1300 24 18 33 Particles >6μm ASTM D7647 >160 5 4 5 Particles >14μm ASTM D7647 >40 2 1 2 Particles >21μm ASTM D7647 >10 0 0 0 Particles >38μm ASTM D7647 >3 0 0 0	Water	%	ASTM D6304*	>0.05		0.001	0.001
Particles >4μm ASTM D7647 >5000 71 54 85 Particles >6μm ASTM D7647 >1300 24 18 33 Particles >6μm ASTM D7647 >160 5 4 5 Particles >14μm ASTM D7647 >40 2 1 2 Particles >21μm ASTM D7647 >10 0 0 0 Particles >38μm ASTM D7647 >3 0 0 0	ppm Water	ppm	ASTM D6304*	>500	13.6	13.4	12.7
Particles >6μm ASTM D7647 >1300 24 18 33 Particles >14μm ASTM D7647 >160 5 4 5 Particles >14μm ASTM D7647 >40 2 1 2 Particles >21μm ASTM D7647 >40 2 1 2 Particles >38μm ASTM D7647 >10 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0	FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >14μm ASTM D7647 >160 5 4 5 Particles >21μm ASTM D7647 >40 2 1 2 Particles >38μm ASTM D7647 >10 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0	Particles >4µm		ASTM D7647	>5000	71	54	85
Particles >21μm ASTM D7647 >40 2 1 2 Particles >38μm ASTM D7647 >10 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0	Particles >6µm			>1300	24	18	33
Particles >38μm ASTM D7647 >10 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0	Particles >14µm				5	4	5
Particles >71μm ASTM D7647 >3 0 0 0	Particles >21µm		ASTM D7647	>40	2	1	2
	Particles >38µm		ASTM D7647	>10	0	0	0
Dil Cleanliness ISO 4406 (c) >19/17/14 13/12/10 13/11/9 14/12/10	Particles >71µm		ASTM D7647	>3	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	13/12/10	13/11/9	14/12/10



OIL ANALYSIS REPORT





FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.55	0.41	0.52
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	68	63.0	63.1	62.9
Visc @ 100°C	cSt	ASTM D7279(m)	8.6	8.7	8.7	8.7
Viscosity Index (VI)	Scale	ASTM D2270*	96	110	110	111
SAMPLE IMAGES	3	method	limit/base	current	history1	history2

Color

Bottom



: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 WearCheck Quality Control Sample Results : WC0865594 Received : 27 Oct 2023 : 02592388 Diagnosed : 30 Oct 2023 Burlington, ON : 5669467 Diagnostician : Wes Davis CA Laboratory Test Package : IND 2 (Additional Tests: KF, KV100, TAN Man, VI) Contact: Dorian Anderson To discuss this sample report, contact Customer Service at 1-800-268-2131. dorian.anderson@wearcheck.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (289)291-4652 Validity of results and interpretation are based on the sample and information as supplied. F: (905)569-8605