

[MC-001352-1] STC200LT00MT20042HR1 410000047788 - RACK C (S/N 500392-103)

Reciprocating Compressor

BITZER BSE 85K (12 LTR)

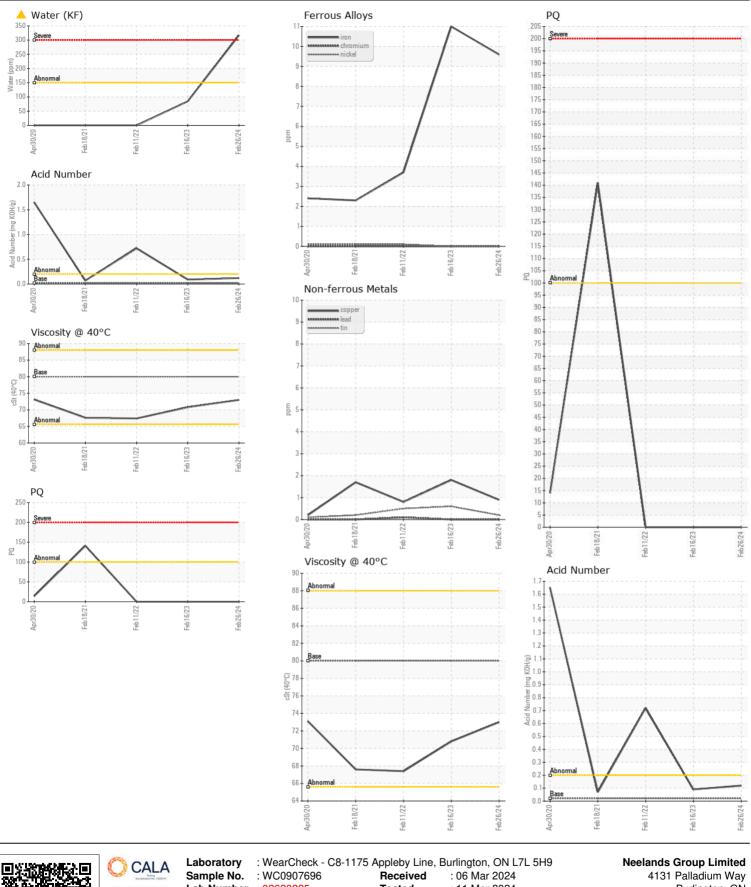
RECOMMENDATION

WEAR

CONTAMINATION

No. Sample Number Client Info WC8090788 WC0789025 WC189025 If Ed 2 If Ed	We advise that you check for the source of water entry. Check seals and/or filers for points of contaminant entry. The air breatter requires some in the you service in transition. Client Info WO099796 WO09796								
We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The ait breather requires service. If unaided, we ecommend that you service with a suitable witha suitable with a suitable with a suitable with a s	We advise that you check for the source of water entry. Check seals and/or filers for points of contaminant entry. The air breatter requires some in the you service in transition. Client Info WO099796 WO09796	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
and/or filters for points of contaminant entry. The air breather requires service. II unrated and/or desicoant air breather. II rated, we recommend that you servide with a subated for the control that you servide with a subated for the control that you servide. II unrated and/or desicoant air breather. II rated, we recommend an early resample to monitor this filter dage mitts. Client linio 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	and/or filters for points of contaminant entry. The air breather requires service. If unated and/or desicant air breather. If rated, we recommend that you service/inpace the breather. If rated, we recommend filter day out we designed we the subset filter day out we designed we designed we designed we designed we designed day designed we designed we designed we designed we designed we designed day designed we designed we designed we designed we designed we designed day designed we designed	We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. 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. We advise that you use off-line	Sample Number		Client Info			-	WC0668579
service. unrated. vercommend that you replace with a suitable micron rated and/or desicant all breahts. Machine Age mtms Client Info 0 0 2 Initration with wear adsorbent filters to attempt to emonye the water adsorbent filters on times to emony the water adsorbent filters ad	service, if urnated, we recommend that you replace with a suitable micro rated and/or desicant if hy we recommend if up us evica/replace the breather. We advise that you use off-line if up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the breather. We advise that you use off-line up up aevica/replace the bre		Sample Date		Client Info		26 Feb 2024	16 Feb 2023	11 Feb 2022
that you service/replace the breather. We advise that you use off-liner first not with wear adsorbent filters 0 attempt to remove the water from this oil. We recommend an early resample to monitor this: condition. WEAR All component wear rates are normal. Picer Changed Chromium ppm & KND05869 >00 00 00 Nickel ppm & KND05869 >00 00 00 Noke NONE NONE NONE Copper ppm & KND05869 >00 00 00 None NONE	Pitter Age mins Client Info 8 0 1 NA		Machine Age	mths	Client Info		0	0	4
Mile Argo Mile Argo <t< th=""><th>Illeration with water adsorbent filters to attempt to remove the water condition. Initial Granged Cilent Info NA NA NA Changed Oil Changed Cilent Info NA NA Changed NA NA Changed Signed Status Cilent Info NA NA Changed NA NA Changed All component wear rates are normal. PQ ASTM058(m) SMM108(m) SMM108(m) SMM108(m) O <td< th=""><th>Oil Age</th><th>mths</th><th>Client Info</th><th></th><th>0</th><th>0</th><th>2</th></td<></th></t<>	Illeration with water adsorbent filters to attempt to remove the water condition. Initial Granged Cilent Info NA NA NA Changed Oil Changed Cilent Info NA NA Changed NA NA Changed Signed Status Cilent Info NA NA Changed NA NA Changed All component wear rates are normal. PQ ASTM058(m) SMM108(m) SMM108(m) SMM108(m) O <td< th=""><th>Oil Age</th><th>mths</th><th>Client Info</th><th></th><th>0</th><th>0</th><th>2</th></td<>		Oil Age	mths	Client Info		0	0	2
Chi Changed Chientino NA NA Filtered sample Status WEAR NA NA Filtered Sample Status Change ABNORMA NA Filtered Change NA NA Filtered Sample Status WEAR PQ ASTM 08184' 0 0 0 0 All component wear rates are normal. PQ ASTM 08186 50 10 11 4 Nicked ppm ASTM 08186 50 0	International water presentiple to monitor this Oil Changed Client Info NA NA<		Filter Age	mths	Client Info		8	0	1
Condition. Filter Changed Cleanged NA Changed Sample Status ABNORM. NORMAL ABNORM. NORMAL ABNORM. VEAR PQ ASTM DS18/m 50 10 11 4 All component wear rates are normal. PQ ASTM DS18/m 50 100 11 4 Chromium ppm ASTM DS18/m 10 0 <t< th=""><th>Filter Changed Clininged Changed NA Changed NA Changed Sample Status Sample Status ABNORMAL ABNORMAL</th><th></th><th>Oil Changed</th><th></th><th>Client Info</th><th></th><th>N/A</th><th>N/A</th><th>Filtered</th></t<>	Filter Changed Clininged Changed NA Changed NA Changed Sample Status Sample Status ABNORMAL		Oil Changed		Client Info		N/A	N/A	Filtered
WEAR PQ ASTM DB18 ⁴ Q Q Q All component wear rates are normal. Iron ppm ASTM DB18 ⁴ SO 10 11 4 Chromium ppm ASTM DB18 ⁴ IO 0	PQ ASTA DB18/T 0 0 0 All component wear rates are normal. Iron pm K3TA D518(m) >50 10 11 4 Chromium pm K3TA D518(m) >50 0 <td< th=""><th rowspan="2"></th><th>Filter Changed</th><th></th><th>Client Info</th><th></th><th>Changed</th><th>N/A</th><th>Changed</th></td<>		Filter Changed		Client Info		Changed	N/A	Changed
All component wear rates are normal. Iron ppm ASTN 0518/m >50 10 11 4 All component wear rates are normal. Chromium ppm ASTN 0518/m >10 0	Iron ppm ATM DD156m >60 10 11 4 Chromium ppm ATM DD156m >60 0		Sample Status				ABNORMAL	NORMAL	ABNORMAL
All component wear rates are normal. Iron ppm ASTN 0518/m >50 10 11 4 All component wear rates are normal. Chromium ppm ASTN 0518/m >10 0	Iron ppm ATM DD156m >60 10 11 4 Chromium ppm ATM DD156m >60 0	WEAR	PO		ASTM D818/*		0	0	0
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Titanium ppm ASTU D518(m) 0 0 0 Silver ppm ASTU D518(m) 22 4.1 <.1 <.1 Biver ppm ASTU D518(m) >25 0 0 <.1 <.1 <.1 Lead ppm ASTU D518(m) >50 <.1 2.2 <.1 Tin ppm ASTU D518(m) >50 <.1 2.0 <.1 Vanadium ppm ASTU D518(m) >50 <.1 2.0 <.1 Vanadium ppm ASTU D518(m) >50 <.1 2.0 <.1 Vanadium ppm ASTU D518(m) >50 <.1 <.0 0 0 Vanadium ppm ASTU D518(m) >25 <.1 <.1 0.0 <.1 Velow Metal scalar Visual* NONE NONE<	Titanium ppm ASTM DSISGIP 0 0 0 Silver ppm ASTM DSISGIP C0 0 0 0 Aluminum ppm ASTM DSISGIP S2 <1 <1 <1 Lead ppm ASTM DSISGIP S20 <1 2 <1 Copper ppm ASTM DSISGIP S0 <1 2 <1 Vanadium ppm ASTM DSISGIP S0 <1 2 <1 Vanadium ppm ASTM DSISGIP S0 <1 2 <1 Vanadium ppm ASTM DSISGIP S0 <1 0 <0 There is a moderate concentration of water present in the oil. Silicon ppm ASTM DSISGIP 0.031 0.032 Silicon ppm ASTM DSISGIP S0.015 0.031 0.032 Dpm Water scalar Visual* NONE NONE NONE NONE Sold Scalar				. ,	>10			
Silver ppm ASTM D515(m) Co 0 0 Aluminum ppm ASTM D515(m) >25 <1 <1 <1 Lead ppm ASTM D515(m) >25 0 0 <1 Copper ppm ASTM D515(m) >25 <1 <1 <1 Copper ppm ASTM D515(m) >25 <1 <1 <1 Vanadium ppm ASTM D515(m) >15 <1 <1 <1 Visual Scalar Visual* NONE NONE <t< th=""><th>Silver ppm ASTM 56186m 0 0 0 Aluminum ppm ASTM 56186m >25 <1 <1 <1 Lead ppm ASTM 56186m >25 <1 <1 <1 Copper ppm ASTM 56186m >15 <1 2 <1 Tin ppm ASTM 56186m >15 <1 <1 <1 <1 Vanadium ppm ASTM 56186m >15 <1 <1< <1 <1< <</th><th></th><th></th><th></th><th>. ,</th><th></th><th></th><th></th><th></th></t<>	Silver ppm ASTM 56186m 0 0 0 Aluminum ppm ASTM 56186m >25 <1 <1 <1 Lead ppm ASTM 56186m >25 <1 <1 <1 Copper ppm ASTM 56186m >15 <1 2 <1 Tin ppm ASTM 56186m >15 <1 <1 <1 <1 Vanadium ppm ASTM 56186m >15 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1< <1 <1< <1< <1< <1< <1< <1< <1< <1< <1< <1< <1< <1< <1< <1< <1< <1< <1< <1< <1< <1< <1< <1< <1< <1< <1< <1< <				. ,				
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Copper pm ASTM D5185m >50 <1	Copper ppm ASTM D5185(m) >50 <1				()				
Tin pp ASTM 05165(m) >15 <1	Tin ppm ASTM D515(m) >15 <1				. ,				
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White Metal scalar Visual* NONE NONE A LIGH Yellow Metal scalar Visual* NONE 10	White Metal scalar Visual* NONE NONE NONE LIGHT Yellow Metal scalar Visual* NONE Image: None				. ,				
Yellow MetalscalarVisual*NONENONENONENONECONTAMINATIONSiliconppmASTM05185(m) >203618PotassiumppmASTM05185(m) >20<10<10<1Water%ASTM05185(m) >20<10.0310.008ppm WaterppmASTM05034*>150<10.0310.008SilitscalarVisual*NONENONENONENONESadr/DiritscalarVisual*NONENONENONENONEAppearancescalarVisual*NORMNORMLNORMLNONEOdorscalarVisual*NORMNORMLNORMLNORMLNORMLProvided that the contaminant(s) can be reduced to acceptable levels.pmASTM05185(m)0<100MagnenseppmASTM05185(m)00000000MagnenseppmASTM05185(m)000 <td< th=""><th>Vellow MetalscalarVisual*NONENONENONENONECONTAMINATIONThere is a moderate concentration of water present in the oil.SiliconppmASTMD5185(m)>20<10<1Water%ASTMD5185(m)>20<10.008ppm WaterppmASTMD5185(m)>20<10.008ppm WaterppmASTMD50304*>150<184.6SiltscalarVisual*NONENONENONENONENONESand/DirtscalarVisual*NORENONENONENONENONEAppearancescalarVisual*NORMNORMNORMNORMNORMNORMCdorscalarVisual*NORMNORMNORMNORMNORMNORMNORMFLUID CONDITIONSodiumppmASTMD5185(m)000000The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.SodiumppmASTMD5185(m)00000MarganeseppmASTMD5185(m)000<t< th=""><th></th><th></th><th></th><th>()</th><th>NONE</th><th></th><th></th><th></th></t<></th></td<>	Vellow MetalscalarVisual*NONENONENONENONECONTAMINATIONThere is a moderate concentration of water present in the oil.SiliconppmASTMD5185(m)>20<10<1Water%ASTMD5185(m)>20<10.008ppm WaterppmASTMD5185(m)>20<10.008ppm WaterppmASTMD50304*>150<184.6SiltscalarVisual*NONENONENONENONENONESand/DirtscalarVisual*NORENONENONENONENONEAppearancescalarVisual*NORMNORMNORMNORMNORMNORMCdorscalarVisual*NORMNORMNORMNORMNORMNORMNORMFLUID CONDITIONSodiumppmASTMD5185(m)000000The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.SodiumppmASTMD5185(m)00000MarganeseppmASTMD5185(m)000 <t< th=""><th></th><th></th><th></th><th>()</th><th>NONE</th><th></th><th></th><th></th></t<>				()	NONE			
CONTAMINATION Silicon ppm ASTM D5185(m) >20 3 6 18 Potassium ppm ASTM D5185(m) >20 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 0 <1 0<	Silicon ppm ASTM D5185(m) >25 3 6 18 Potassium ppm ASTM D5185(m) >20 <1 0.00 <1 Water % ASTM D5185(m) >20 <1 0.00 <1 Water % ASTM D5084' >0.015 <0.031 0.008 Silt scalar Visual* NONE <0.015 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016 <0.016		Yellow Metal						
Potassium ppm ASTM D5185(m) >20 <1	Potassium ppm ASTM D5(85m) >20 <1								
There is a moderate concentration of water present in the oil. Water % ASTM D6304* >0.013 0.008 ppm Water ppm ASTM D6304* >150 A 317 84.6 Silt scalar Visual* NONE NONE NONE NONE NONE ILGH Silt scalar Visual* NONE NONE NONE NONE NONE NONE Debris scalar Visual* NONE NORM NORM NORM NORM NORM	Water % ASTM D6304* >0.015 ▲ 0.031 0.008 ppm Water ppm ASTM D6304* >150 ▲ 317 84.6 Silt scalar Visual* NONE NONE NONE NONE NONE LIGHT Sand/Dirt scalar Visual* NONE NORE	CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25		6	
Water % ASTM D6304* >0.015 ▲ 0.031 0.008 ppm Water ppm ASTM D6304* >150 ▲ 317 84.6 Silt scalar Visual* NONE NONE NONE NONE NONE ILIGH Debris scalar Visual* NONE NORE NOR	Water % ASTM D6304' >0.03 0.008 ppm Water ppm ASTM D6304' >105 ▲ 317 84.6 Silt scalar Visual* NONE NONE NONE NONE LIGHT Debris scalar Visual* NONE NONE NONE NONE LIGHT Sand/Dirt scalar Visual* NORM	There is a moderate concentration of water present in the oil.		ppm					<1
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Sand/Dirt scalar Visual* NONE NONE NONE NONE NONE Appearance scalar Visual* NORM NORML FREC Cdor scalar Visual* NORML NORML NORML NORML FREC Emulsified Water scalar Visual* NORML NORML NORML NORML FREC The AN level is acceptable for this fluid. The oil is still serviceable ppm ASTM D5185(m) 0	Sand/DirtscalarVisual*NONENONENONENONENONEAppearancescalarVisual*NORMLNORMLNORMLNORMLNORMLNORMLNORMLOdorscalarVisual*NORMNORMLNORMLNORMLNORMLFREONEmulsified WaterscalarVisual*NOISNEGNEGNEGNEGFLUID CONDITIONSodiumppmASTM D5185m0<112BoronppmASTM D5185m00000BariumppmASTM D5185m00000MolybdenumppmASTM D5185m00000MaganeseppmASTM D5185m00000CalciumppmASTM D5185m00000PhosphorusppmASTM D5185m0011531251ZincppmASTM D5185m00000Acid Number (AN)mgKHgASTM D5185m0025Acid Number (AN)mgKHgASTM D5185m0025								
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Odor scalar Visual* NORML NORML NORML FRECONSTRUCT FLUID CONDITION Sodium ppm ASTM D5185(m) 0	Odor scalar Visual* NORML NORML FREOM Emulsified Water scalar Visual* >0.015 NEG NEG NEG NEG FLUID CONDITION Sodium ppm ASTM D5185(m) C								
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FLUID CONDITION Sodium ppm ASTM D5185(m) C<1	FLUID CONDITION Sodium ppm ASTM D5185(m) C<1								
Boron ppm ASTM D5185(m) 0 <1 2 Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0	BoronppmASTM D5185(m)0<1		Emulsified Water	scalar	Visual*	>0.015	NEG	NEG	NEG
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels. Barium ppm ASTM D5185(m) 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 <1 0 0 Calcium ppm ASTM D5185(m) 0 <1 0 <1 Phosphorus ppm ASTM D5185(m) 0 <1153 1251 Zinc ppm ASTM D5185(m) 0 6 4 2 Sulfur ppm ASTM D5185(m) 0 0 2 5	BariumppmASTM D5185(m)00000MolybdenumppmASTM D5185(m)00000ManganeseppmASTM D5185(m)000000MagnesiumppmASTM D5185(m)0000000CalciumppmASTM D5185(m)01000 <td< th=""><th>FLUID CONDITION</th><th>Sodium</th><th>ppm</th><th>ASTM D5185(m)</th><th></th><th><1</th><th><1</th><th>0</th></td<>	FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		<1	<1	0
Barium ppm ASTM D5185(m) 0	Barium ppm ASTM D5185(m) 0 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 <th rowspan="3">The AN level is acceptable for this fluid. The oil is still serviceable</th> <th>Boron</th> <th>ppm</th> <th>ASTM D5185(m)</th> <th>0</th> <th><1</th> <th>1</th> <th>2</th>	The AN level is acceptable for this fluid. The oil is still serviceable	Boron	ppm	ASTM D5185(m)	0	<1	1	2
Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 0 0 0 Calcium ppm ASTM D5185(m) 0	Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 <th>Barium</th> <th>ppm</th> <th>ASTM D5185(m)</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th>		Barium	ppm	ASTM D5185(m)	0	0	0	0
Magnesium ppm ASTM D5185(m) 0 <1	Magnesium ppm ASTM D5185(m) 0 <1		Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Calcium ppm ASTM D5185(m) 0 <1	Calcium ppm ASTM D5185(m) 0 <1		Manganese	ppm	ASTM D5185(m)	0	0	0	0
Phosphorus ppm ASTM D5185(m) 1200 1055 1153 1251 Zinc ppm ASTM D5185(m) 0 6 4 2 Sulfur ppm ASTM D5185(m) 0 0 0 2 5	Phosphorus ppm ASTM D5185(m) 1200 1055 1153 1251 Zinc ppm ASTM D5185(m) 0 6 4 2 Sulfur ppm ASTM D5185(m) 0 0 0 2 5 Acid Number (AN) mg KOH/g ASTM D974* 0.02 0.12 0.09 0.72		Magnesium	ppm	ASTM D5185(m)	0	<1	0	0
Zinc ppm ASTM D5185(m) 0 6 4 2 Sulfur ppm ASTM D5185(m) 0 0 2 5	Zinc ppm ASTM D5185(m) 0 6 4 2 Sulfur ppm ASTM D5185(m) 0 0 2 5 Acid Number (AN) mg KOH/g ASTM D974* 0.02 0.12 0.09 0.72		Calcium	ppm	ASTM D5185(m)	0	<1	0	<1
Sulfur ppm ASTM D5185(m) 0 0 2 5	Sulfur ppm ASTM D5185(m) 0 0 2 5 Acid Number (AN) mg KOH/g ASTM D974* 0.02 0.12 0.09 0.72		Phosphorus	ppm	ASTM D5185(m)	1200	1055	1153	1251
	Acid Number (AN) mg KOH/g ASTM D974* 0.02 0.12 0.09 0.72		Zinc	ppm	. ,		6	4	
			Sulfur	ppm	ASTM D5185(m)	0	0	2	5
	Visc @ 40°C cSt ASTM D7279(m) 80 73.0 70.8 67.4		Acid Number (AN)	mg KOH/g				0.09	
Visc @ 40°C cSt ASTM D7279(m) 80 73.0 70.8 67.4			Visc @ 40°C	cSt	ASTM D7279(m)	80	73.0	70.8	67.4

Report Id: NEEBUR [WCAMIS] 02620225 (Generated: 04/03/2024 09:49:03) Rev: 1



 Sample No.
 : WC0907696
 Received
 : 06 Mar 2024
 4131

 iso 17025:2017
 Lab Number
 : 02620225
 Tested
 : 11 Mar 2024

 Accredited Laboratory
 Unique Number
 : 5737335
 Diagnosed
 : 11 Mar 2024 - Kevin Marson

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

 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 T

 Validity of results and interpretation are based on the sample and information as supplied.
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