

OIL ANALYSIS REPORT

WATER

Machine Id

C-9101 AC 1 (S/N U101502562)

Air Compressor

USPI MAX FG AIR 46 (--- GAL)

DIAGNOSIS

A Recommendation

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Excessive free water present. There is a trace of moisture present in the oil. The amount and size of particulates present in the system are acceptable.

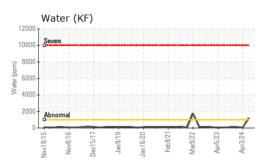
Fluid Condition

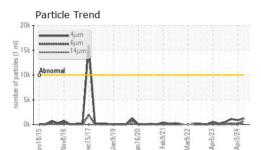
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

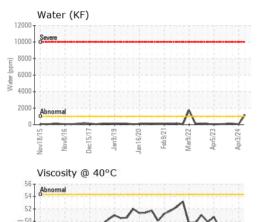
Sample Date Client Info 08 Jul 2024 03 Apr 2024 09 Jan 24 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status Client Info N/A N/A N/A N/A WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >70 0 0 0 Nickel ppm ASTM D5185m >10 0 0 0 Silver ppm ASTM D5185m >10 0 0 0 Cadmium ppm ASTM D5185m >20 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 <	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info N/A N/A N/A Sample Status Client Info N/A N/A N/A N/A WEAR METALS method limit/base current history1 history1 fon ppm ASTM D5185m >70 0 0 0 Nickel ppm ASTM D5185m >66 0 0 0 Aluminum ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >10 0 <1	Sample Number		Client Info		USPM37028	USPM28667	USPM28665
Oil Age hrs Client Info N/A N/A N/A N/A Sample Status Client Info N/A ABNORMAL NORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >70 0 0 0 Chromium ppm ASTM D5185m >15 0 0 0 Nickel ppm ASTM D5185m >6 0 0 0 Aluminum ppm ASTM D5185m >10 0 <1	Sample Date		Client Info		08 Jul 2024	03 Apr 2024	09 Jan 2024
Oil Changed Client Info N/A	Machine Age	hrs	Client Info		0	0	0
Sample Status method Imi// bits ABNORMAL NORMAL NORMAL NORMAL WEAR METALS method limi//base current history1 history1 Iron ppm ASTM D5185m >70 0 0 0 Nickel ppm ASTM D5185m >6 0 0 0 Silver ppm ASTM D5185m >6 0 0 0 Aluminum ppm ASTM D5185m >10 0 <1	Oil Age	hrs	Client Info		0	0	0
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Iron ppm ASTM D5185m >70 0 0 0 Chromium ppm ASTM D5185m >15 0 0 0 Nickel ppm ASTM D5185m >6 0 0 0 Silver ppm ASTM D5185m >60 0 0 0 Aluminum ppm ASTM D5185m >20 0 0 0 Lead ppm ASTM D5185m >80 0 0 0 Copper ppm ASTM D5185m >15 0 <1	Sample Status				ABNORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >15 0 0 0 Nickel ppm ASTM D5185m >6 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >10 0 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >6 0 0 0 Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >20 0 0 0 Lead ppm ASTM D5185m >20 0 0 0 Copper ppm ASTM D5185m >15 0 <1	Iron	ppm	ASTM D5185m	>70	0	0	0
Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >10 0 <1	Chromium	ppm	ASTM D5185m	>15	0	0	0
Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m >10 0 <1	Nickel	ppm	ASTM D5185m	>6	0	0	0
Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >10 0 <1	Titanium		ASTM D5185m		0	0	0
Aluminum ppm ASTM D5185m >10 0 <1 0 Lead ppm ASTM D5185m >20 0 0 0 Copper ppm ASTM D5185m >80 0 0 0 Tin ppm ASTM D5185m >15 0 <1	Silver		ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >20 0 0 0 Copper ppm ASTM D5185m >80 0 0 0 Tin ppm ASTM D5185m >15 0 <1	Aluminum		ASTM D5185m	>10		<1	0
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Barium ppm ASTM D5185m 0	ADDITIVES		method	limit/base	current	history1	history2
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Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 0 Zinc ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 0 0 CONTAMINANTS method limit/base current history1 histor Silicon ppm ASTM D5185m >12 <1	Molybdenum	ppm	ASTM D5185m	0	0	0	0
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Phosphorus ppm ASTM D5185m 0 0 0 0 0 Zinc ppm ASTM D5185m 0 0 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 15 10 CONTAMINANTS method limit/base current history1 histor Silicon ppm ASTM D5185m >12 <1 <1 0 Sodium ppm ASTM D5185m >12 <1 <1 0 Sodium ppm ASTM D5185m >20 <1 <1 0 Potassium ppm ASTM D5185m >20 <1 <1 0 Water % ASTM D6304 >0.1 0.120 0.006 0.011 ppm Water ppm ASTM D6304 >1000 1244 875 1087 Particles >4µm ASTM D7647 >2500 678 180 194 Particles >14µm AS	Magnesium	ppm	ASTM D5185m	0	0	0	0
Zinc ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 15 10 CONTAMINANTS method limit/base current history1 histor Silicon ppm ASTM D5185m >12 <1	Calcium	ppm	ASTM D5185m	0	0	0	0
Sulfur ppm ASTM D5185m 0 0 15 10 CONTAMINANTS method limit/base current history1 history1 history1 Silicon ppm ASTM D5185m >12 <1 <1 0 Sodium ppm ASTM D5185m >12 <1 <1 0 Potassium ppm ASTM D5185m >20 <1 <1 0 Water % ASTM D6304 >0.1 0.120 0.006 0.011 ppm Water ppm ASTM D6304 >1000 1200 63 118 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 >10000 1244 875 1087 Particles >6µm ASTM D7647 >2500 6778 180 194 Particles >14µm ASTM D7647 >320 115 11 13 Particles >38µm ASTM D7647 >20 6<	Phosphorus	ppm	ASTM D5185m	0	0	0	0
CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >12 <1	Zinc	ppm	ASTM D5185m	0	0	0	0
Silicon ppm ASTM D5185m >12 <1 <1 0 Sodium ppm ASTM D5185m <1	Sulfur	ppm	ASTM D5185m	0	0	15	10
Sodium ppm ASTM D5185m <1 <1 0 Potassium ppm ASTM D5185m<>20 <1	CONTAMINANTS	6	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <1 <1 0 Water % ASTM D6304 >0.1 0.120 0.006 0.011 ppm ASTM D6304 >1000 1200 63 118 FLUID CLEANLINESS method limit/base current history1 histor Particles >4µm ASTM D7647 >10000 1244 875 1087 Particles >6µm ASTM D7647 >2500 678 180 194 Particles >14µm ASTM D7647 >320 115 11 13 Particles >14µm ASTM D7647 >20 6 0 0 Particles >38µm ASTM D7647 >20 6 0 0 Particles >71µm ASTM D7647 >4 1 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 17/17/14 17/15/11 17/15/11	Silicon	ppm	ASTM D5185m	>12	<1	<1	0
Water % ASTM D6304 >0.1 0.120 0.006 0.011 ppm Water ppm ASTM D6304 >1000 1200 63 118 FLUID CLEANLINESS method limit/base current history1 histor Particles >4µm ASTM D7647 >10000 1244 875 1087 Particles >6µm ASTM D7647 >2500 678 180 194 Particles >6µm ASTM D7647 >320 115 11 13 Particles >14µm ASTM D7647 >80 39 4 5 Particles >21µm ASTM D7647 >20 6 0 0 Particles >71µm ASTM D7647 >4 1 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 17/17/14 17/15/11 17/15/11	Sodium	ppm	ASTM D5185m		<1	<1	0
ppm Water ppm ASTM D6304 >1000 1200 63 118 FLUID CLEANLINESS method limit/base current history1 histor Particles >4µm ASTM D7647 >10000 1244 875 1087 Particles >6µm ASTM D7647 >2500 678 180 194 Particles >14µm ASTM D7647 >320 115 11 13 Particles >21µm ASTM D7647 >80 39 4 5 Particles >38µm ASTM D7647 >20 6 0 0 Particles >71µm ASTM D7647 >4 1 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 17/17/14 17/15/11 17/15/11	Potassium	ppm	ASTM D5185m	>20	<1	<1	0
FLUID CLEANLINESSmethodlimit/basecurrenthistory1history1Particles >4 μ mASTM D7647>1000012448751087Particles >6 μ mASTM D7647>2500678180194Particles >14 μ mASTM D7647>3201151113Particles >21 μ mASTM D7647>803945Particles >38 μ mASTM D7647>20600Particles >71 μ mASTM D7647>4100Oil CleanlinessISO 4406 (c)>20/18/1517/17/1417/15/1117/15/11	Water	%	ASTM D6304	>0.1	0.120	0.006	0.011
Particles >4μm ASTM D7647 >10000 1244 875 1087 Particles >6μm ASTM D7647 >2500 678 180 194 Particles >14μm ASTM D7647 >320 115 11 13 Particles >21μm ASTM D7647 >80 39 4 5 Particles >38μm ASTM D7647 >20 6 0 0 Particles >71μm ASTM D7647 >4 1 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 17/17/14 17/15/11 17/15/11	ppm Water	ppm	ASTM D6304	>1000	1200	63	118
Particles >6µm ASTM D7647 >2500 678 180 194 Particles >14µm ASTM D7647 >320 115 11 13 Particles >21µm ASTM D7647 >80 39 4 5 Particles >38µm ASTM D7647 >20 6 0 0 Particles >71µm ASTM D7647 >4 1 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 17/17/14 17/15/11 17/15/11	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14µm ASTM D7647 >320 115 11 13 Particles >21µm ASTM D7647 >80 39 4 5 Particles >38µm ASTM D7647 >20 6 0 0 Particles >71µm ASTM D7647 >4 1 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 17/17/14 17/15/11 17/15/11							
Particles >21μm ASTM D7647 >80 39 4 5 Particles >38μm ASTM D7647 >20 6 0 0 Particles >71μm ASTM D7647 >4 1 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 17/17/14 17/15/11 17/15/11			ASTM D7647	>2500	678	180	194
Particles >38μm ASTM D7647 >20 6 0 0 Particles >71μm ASTM D7647 >4 1 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 17/17/14 17/15/11 17/15/11			ASTM D7647	>320	115	11	13
Particles >71μm ASTM D7647 >4 1 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 17/17/14 17/15/11 17/15/	Particles >21µm		ASTM D7647	>80	39	4	5
Oil Cleanliness ISO 4406 (c) >20/18/15 17/17/14 17/15/11 17/15/	Particles >38µm		ASTM D7647	>20	6	0	0
	Particles >71µm		ASTM D7647	>4	1	0	0
FLUID DEGRADATION method limit/base current history1 histo	Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/17/14	17/15/11	17/15/11
	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045 0.16 0.09 0.25 0.07	Acid Number (AN)	mg KOH/g	ASTM D8045	0.16	0.09	0.25	0.07



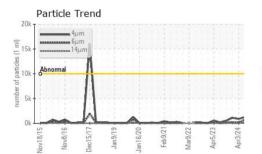
OIL ANALYSIS REPORT





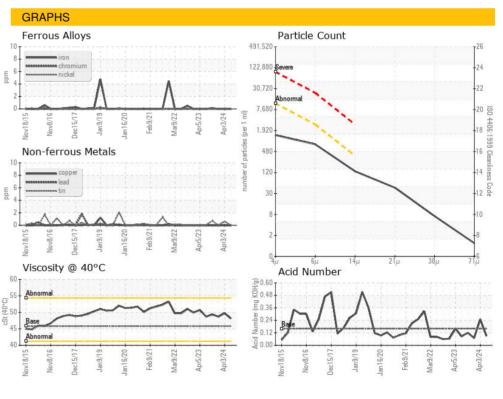






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG	NEG
Free Water	scalar	*Visual		<mark>人</mark> >10%	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.8	48.1	49.7	48.7
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						a.

Bottom





Laboratory Sample No. Lab Number : 06236001 Unique Number : 11124835 Certificate 12367

Test Package : IND 2

Received : 15 Jul 2024 Tested : 18 Jul 2024 Diagnosed : 18 Jul 2024 - Doug Bogart CARGILL OIL SEEDS 5000 SOUTH BLVD CHARLOTTE, NC

US 28217 Contact:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: USPM37028

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Report Id: CARCHAPRO [WUSCAR] 06236001 (Generated: 07/18/2024 14:27:47) Rev: 2

Contact/Location: ? ? - CARCHAPRO Page 2 of 2

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