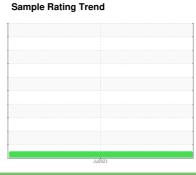


OIL ANALYSIS REPORT

DPO [5605] **KAESER 1021 - INTERNATIONAL IMPORTS**

Compressor





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

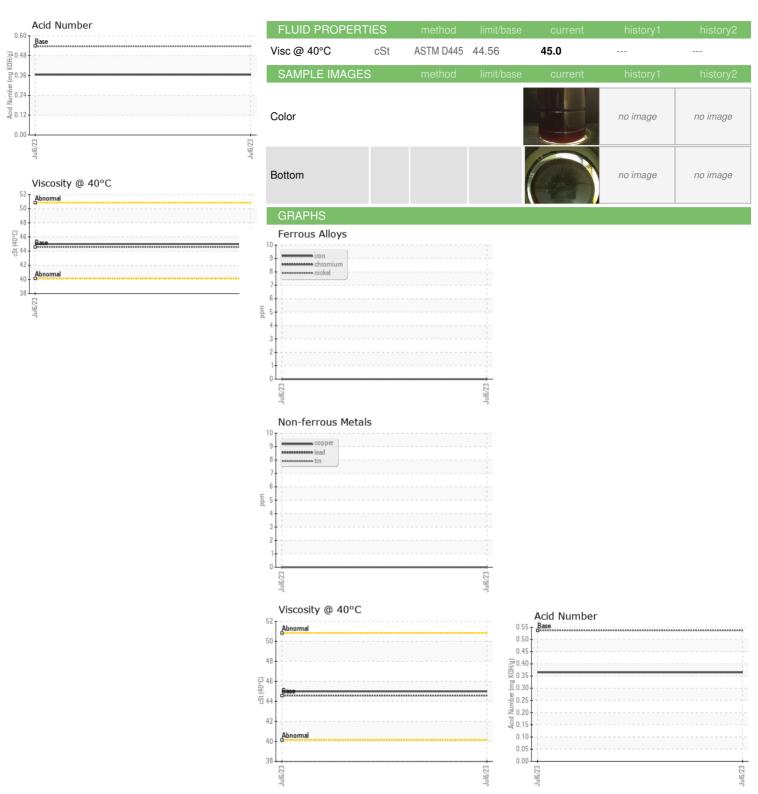
Fluid Condition

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

SAMPLE INFORMATION					Jul2023		
Sample Number	CAMBLE INFOR	MATION	mathad			historyt	history
Client Info		WATION		IIIIII/base			
Machine Age hrs Client Info 12075	•						
Oil Age	•						
Oil Changed Cilient Info NoRMAL Sample Status NoRMAL Sample Status NoRMAL Sample Status NoRMAL Sample Status Sample Stat			0.10110 11110				
NORMAL	-	hrs					
WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >50 0 Chromium ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >3 0 Silver ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >10 0 Aluminum ppm ASTM D5185m >10 0 Lead ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >10 0 Tin ppm ASTM D5185m 0.1 0 Cadmium ppm ASTM D5185m 0.1 0 Barium ppm ASTM D5185m 0.8 0 </td <td><u> </u></td> <td></td> <td>Client Info</td> <td></td> <td></td> <td></td> <td></td>	<u> </u>		Client Info				
Irron	Sample Status				NORMAL		
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>50	0		
Titanium	Chromium	ppm	ASTM D5185m	>10	0		
Silver	Nickel	ppm	ASTM D5185m	>3	0		
Aluminum	Titanium	ppm	ASTM D5185m	>3	<1		
Lead	Silver	ppm	ASTM D5185m	>2	0		
Copper ppm ASTM D5185m >50 0 Tin ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 0.8 0 Barium ppm ASTM D5185m 0.8 0 Molybdenum ppm ASTM D5185m 0.8 0 Magnesium ppm ASTM D5185m 0.9 <1	Aluminum	ppm	ASTM D5185m	>10	0		
Copper ppm ASTM D5185m >50 0 Tin ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m 0 ADDITIVES method limit/base current history Boron ppm ASTM D5185m 0.1 0 Barium ppm ASTM D5185m 0.8 0 Molybdenum ppm ASTM D5185m 0.8 0 Magnesium ppm ASTM D5185m 0.9 <1	Lead		ASTM D5185m	>10	0		
Tin	Copper		ASTM D5185m	>50	0		
Vanadium ppm ASTM D5185m <1 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history Boron ppm ASTM D5185m 0.8 0 Barium ppm ASTM D5185m 0.8 0 Molybdenum ppm ASTM D5185m 0.8 0 Magnesium ppm ASTM D5185m 0.9 <1 Magnesium ppm ASTM D5185m 0.9 <1 Magnesium ppm ASTM D5185m 0.9 <1 Magnesium ppm ASTM D5185m 0.9 0 Visur ppm ASTM D5185m 0.0 0 Sulfur ppm ASTM D5185m 225 <1 </td <td>• • • • • • • • • • • • • • • • • • • •</td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td>	• • • • • • • • • • • • • • • • • • • •				0		
Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0.1 0 Barium ppm ASTM D5185m 0.8 0 Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m 0.9 <1	Vanadium		ASTM D5185m		<1		
ADDITIVES	Cadmium				0		
Boron	ADDITIVEO	le le · · ·		12 24 //		12.4	1:
Barium						history1	history2
Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m 0.9 <1	Boron	ppm	ASTM D5185m	0.1	_		
Manganese ppm ASTM D5185m 0.9 <1 Magnesium ppm ASTM D5185m 0 <1		ppm	ASTM D5185m	8.0	-		
Magnesium ppm ASTM D5185m 0 <1 Calcium ppm ASTM D5185m 0 0 Phosphorus ppm ASTM D5185m 409 70 Zinc ppm ASTM D5185m 0 0 Sulfur ppm ASTM D5185m 1290 542 Sulfur ppm ASTM D5185m 1290 542 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 <1	Molybdenum	ppm		0	0		
Calcium ppm ASTM D5185m 0 0 Phosphorus ppm ASTM D5185m 409 70 Zinc ppm ASTM D5185m 0 0 Sulfur ppm ASTM D5185m 1290 542 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 <1	· ·	ppm	ASTM D5185m	0.9			
Phosphorus ppm ASTM D5185m 409 70 Zinc ppm ASTM D5185m 0 0 Sulfur ppm ASTM D5185m 1290 542 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 <1	Magnesium	ppm	ASTM D5185m	0			
Zinc	Calcium	ppm	ASTM D5185m	0	0		
Sulfur ppm ASTM D5185m 1290 542 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 <1	Phosphorus	ppm	ASTM D5185m	409	70		
CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 <1	Zinc	ppm	ASTM D5185m	0	0		
Silicon ppm ASTM D5185m >25 <1 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 0 FLUID DEGRADATION method limit/base current history1 history Acid Number (AN) mg KOH/g ASTM D8045 0.537 0.365 VISUAL method limit/base current history1 history1 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML	Sulfur	ppm	ASTM D5185m	1290	542		
Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 0 FLUID DEGRADATION method limit/base current history1 history Acid Number (AN) mg KOH/g ASTM D8045 0.537 0.365 VISUAL method limit/base current history1 history White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NO	CONTAMINANTS	S	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 FLUID DEGRADATION method limit/base current history1 history Acid Number (AN) mg KOH/g ASTM D8045 0.537 0.365 VISUAL method limit/base current history1 history White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE Precipitate scalar *Visual NONE Silt scalar *Visual NONE Debris scalar *Visual NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.05 NEG <	Silicon	ppm	ASTM D5185m	>25	<1		
FLUID DEGRADATION method limit/base current history1 history1 Acid Number (AN) mg KOH/g ASTM D8045 0.537 0.365 VISUAL method limit/base current history1 history1 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Codor scalar *Visual >0.05 NEG	Sodium	ppm	ASTM D5185m		2		
Acid Number (AN) mg KOH/g ASTM D8045 0.537 0.365 VISUAL method limit/base current history1 history White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual >0.05 NEG Emulsified Water scalar *Visual >0.05 NEG	Potassium	ppm	ASTM D5185m	>20	0		
VISUAL method limit/base current history1 history White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Codor scalar *Visual >0.05 NEG	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Codor scalar *Visual >0.05 NEG	Acid Number (AN)	mg KOH/g	ASTM D8045	0.537	0.365		
Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual >0.05 NEG Emulsified Water scalar *Visual >0.05 NEG	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.05 NEG	White Metal	scalar	*Visual	NONE	NONE		
Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.05 NEG	Yellow Metal	scalar	*Visual	NONE	NONE		
Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.05 NEG				NONE			
Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.05 NEG	·				NONE		
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.05 NEG	Debris			NONE			
Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.05 NEG							
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.05 NEG							
Emulsified Water scalar *Visual >0.05 NEG	• •						
	Free Water	scalar	*Visual		NEG		



OIL ANALYSIS REPORT







Certificate L2367

Test Package : IND 2

Laboratory Sample No. Lab Number Unique Number : 10563756

: UCH05902400 : 05902400

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jul 2023 Diagnosed : 21 Jul 2023 Diagnostician : Angela Borella

DELTA INDUSTRIES - DOWNERS GROVE

2201 CURTISS STREET DOWNERS GROVE, IL US 60515

Contact: MICHAEL FERRIS

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

* - 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)

F: (630)960-3931