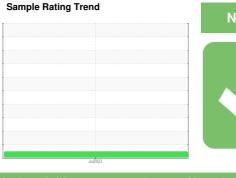


OIL ANALYSIS REPORT

NOT GIVEN [SR2874694] Machine Id 20KE001517 - DRAGON FLY ENERGY

Component

Compressor





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

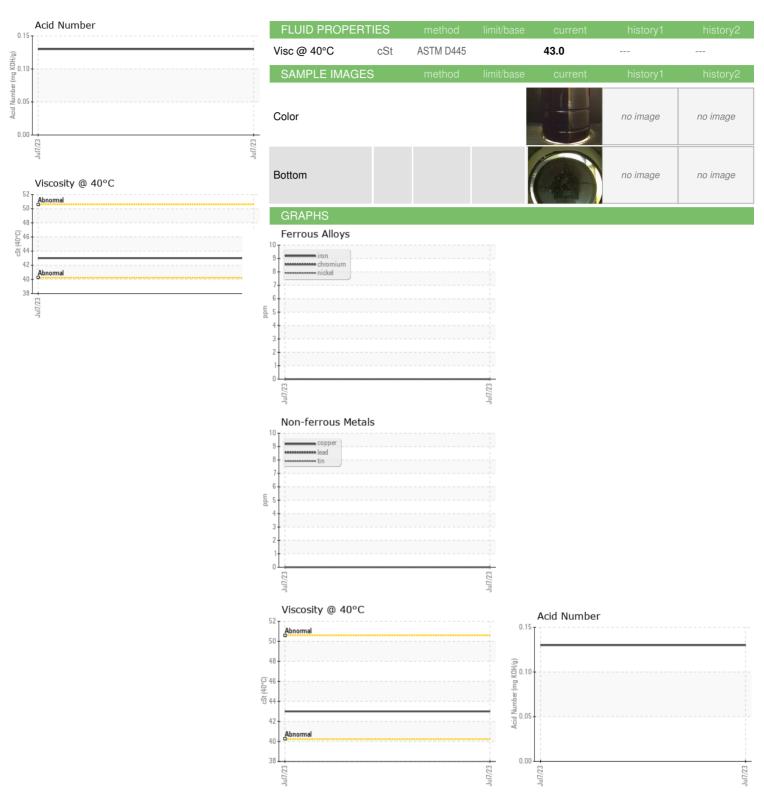
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION					Jul2023		
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date	Sample Number		Client Info		UCH05902410		
Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Changed Client Info N/A Sample Status method Imitibase current history1 history2 Iron ppm ASTM D5185m >50 0 Chromium ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >25 0 Capper ppm ASTM D5185m >50 0 Capper ppm ASTM D5185m >50 0 Capper ppm ASTM D5185m >10 Vanadium	·		Client Info		07 Jul 2023		
Oil Age hrs Client Info N/A	•	hrs			0		
Oil Changed Sample Status Client Info N/A		hrs	Client Info		0		
Sample Status	•		Client Info		N/A		
Iron					NORMAL		
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>50	0		
Titanium	Chromium	ppm	ASTM D5185m	>10	0		
Stilver	Nickel	ppm	ASTM D5185m		0		
Aluminum ppm ASTM D5185m >25 0 Lead ppm ASTM D5185m >25 0 Copper ppm ASTM D5185m >50 0 Tin ppm ASTM D5185m >15 0 Cadmium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Zinc ppm ASTM D5185m 596 Zinc ppm ASTM D5185m 2	Titanium	ppm	ASTM D5185m		<1		
Lead	Silver	ppm	ASTM D5185m		0		
Copper ppm ASTM D5185m >50 0 Tin ppm ASTM D5185m >15 0 Vanadium ppm ASTM D5185m c1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 596 Zinc ppm ASTM D5185m 596 Sulfur ppm ASTM D5185m 2 Sulfur ppm ASTM D5185m 2.5	Aluminum	ppm	ASTM D5185m	>25	0		
Copper ppm ASTM D5185m >50 0 Tin ppm ASTM D5185m >15 0 Vanadium ppm ASTM D5185m <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 596 Sulfur ppm ASTM D5185m 517 Sulfur ppm ASTM D5185m 22	Lead	ppm	ASTM D5185m	>25	0		
Tin	Copper		ASTM D5185m	>50	0		
Vanadium ppm ASTM D5185m <1	• •		ASTM D5185m	>15	0		
ADDITIVES	Vanadium	ppm	ASTM D5185m		<1		
Boron	Cadmium		ASTM D5185m		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 596 Phosphorus ppm ASTM D5185m 2 Zinc ppm ASTM D5185m 2 Sulfur ppm ASTM D5185m >25 6 Sulfor ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 FLUID DEGRADATION	Boron	ppm	ASTM D5185m		0		
Manganese ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		0		
Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 596 Zinc ppm ASTM D5185m 2 Sulfur ppm ASTM D5185m 517 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 25 6 Sodium ppm ASTM D5185m 20 0 Potassium ppm ASTM D5185m >20 0 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOHlg ASTM D8045 0.13 VISUAL method limit/base current history1 history2 White Metal<	Molybdenum	ppm	ASTM D5185m		0		
Calcium ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 596 Zinc ppm ASTM D5185m 2 Sulfur ppm ASTM D5185m 517 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 22 Sodium ppm ASTM D5185m 20 0 Potassium ppm ASTM D5185m >20 0 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOHlg ASTM D8045 0.13 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE Yello	Manganese	ppm	ASTM D5185m		<1		
Phosphorus ppm ASTM D5185m 596 Zinc ppm ASTM D5185m 2 Sulfur ppm ASTM D5185m 517 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 2 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m 20 0 Potassium ppm ASTM D5185m 20 0 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOHlg ASTM D8045 0.13 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE Yello	Magnesium	ppm	ASTM D5185m		0		
Zinc ppm ASTM D5185m 2 Sulfur ppm ASTM D5185m 517 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m 20 0 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.13 FLUID DEGRADATION method limit/base current history1 history2 VISUAL method limit/base current history1 history2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE Yeilow Metal scalar <th>Calcium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th></th> <th></th>	Calcium	ppm	ASTM D5185m		0		
Sulfur ppm ASTM D5185m 517 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 0 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOHlg ASTM D8045 0.13 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silt scalar *Visual NONE NONE	Phosphorus	ppm	ASTM D5185m		596		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 0 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.13 VISUAL method limit/base current history1 history2 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 S		ppm	ASTM D5185m		2		
Silicon ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m 2 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.13 VISUAL 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	Sulfur	ppm	ASTM D5185m		517		
Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 0 FLUID DEGRADATION method limit/base current history1 history2 VISUAL 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 Emulsified Water	CONTAMINANTS	\$	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.13 VISUAL 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 Godor scalar	Silicon	ppm	ASTM D5185m	>25	6		
FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.13 VISUAL 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 NONE NONE Appearance scalar *Visual NORML NORML Codor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	Sodium	ppm	ASTM D5185m		2		
Acid Number (AN) mg KOH/g ASTM D8045 0.13 VISUAL 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 Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	Potassium	ppm	ASTM D5185m	>20	0		
VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEG	FLUID DEGRADA	NOITA	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 NONE NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	Acid Number (AN)	mg KOH/g	ASTM D8045		0.13		
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 NORML NORML Emulsified Water scalar *Visual >0.1 NEG	VISUAL		method			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 >0.1 NEG							
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 >0.1 NEG				NONE			
Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NORML NORML Codor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG							
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEG	Silt						
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEG							
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.1 NEG	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
Free Water scalar *Visual NEG	Emulsified Water	scalar	*Visual	>0.1	NEG		
	Free Water	scalar	*Visual		NEG		



OIL ANALYSIS REPORT







Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10563766 Test Package : IND 2

: UCH05902410 : 05902410

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

: 19 Jul 2023 : 21 Jul 2023 Diagnostician : Angela Borella

US 95816 Contact: BARRY FRKOVICH barryfrkovich@ciscoair.com T: (916)444-2525

CISCO AIR SYSTEMS

SACRAMENTO, CA

214 27TH ST

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)

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