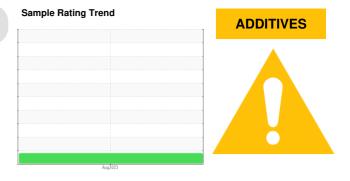


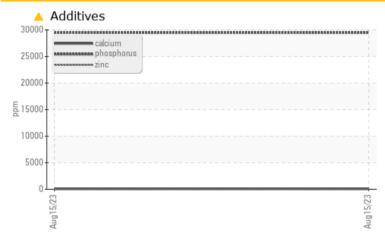
### **PROBLEM SUMMARY**



# AIRBUS N685TA GREEN

Hydraulic System Fluid ESSO HYJET IV-A PLUS (--- GAL)

#### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS								
Sample Status				ATTENTION				
Phosphorus	ppm	ASTM D5185(m)	37	<u> </u>				
Sulfur	ppm	ASTM D5185(m)	220	<b>6</b> 580				

#### Customer Id: KELMOU Sample No.: WC0838472 Lab Number: 02576621 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

*To change component or sample information:* Gloria Gonzalez +1 (289)291-4643 x4643 <u>gloria.gonzalez@wearcheck.com</u>

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.			
Check Fluid Source			?	Confirm the source of the lubricant being utilized for top-up/fill.			

HISTORICAL DIAGNOSIS



### **OIL ANALYSIS REPORT**

Sample Rating Trend

ADDITIVES

## AIRBUS N685TA GREEN

Hydraulic System Fluid ESSO HYJET IV-A PLUS (--- GAL)

#### DIAGNOSIS

#### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The system and fluid cleanliness is acceptable.

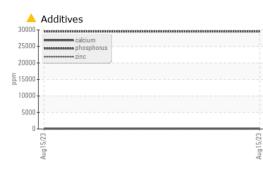
#### Fluid Condition

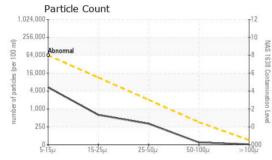
Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

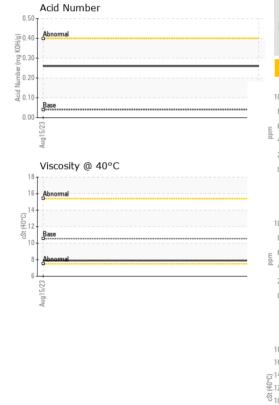
Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Beryllium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         6             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         1             Molybdenum         ppm         ASTM D5185(m)         0             Magnese         ppm         ASTM D5185(m)         0             Magnesium         ppm         ASTM D5185(m)         0             Calcium         ppm         ASTM D5185(m)         10         77             Sulfur         ppm         ASTM D5185(m)         37         4         29489             Sulfur         ppm         ASTM D5185(m)         21              Sulfur	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         0             Oil Age         hrs         Client Info         N/A             Sample Status         Imit/base         current         history1             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5165m         >10         <1	Sample Number		Client Info		WC0838472		
Oil Age         hrs         Client Info         NA             Sample Status         Client Info         N/A             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM 05185(m)         >20         2             Chromium         ppm         ASTM 05185(m)         >10         0             Nickel         ppm         ASTM 05185(m)         >10         0             Aluminum         ppm         ASTM 05185(m)         >20         <1	Sample Date		Client Info		15 Aug 2023		
Oil Changed         Client Info         N/A             Sample Status         Image of the status         Im	Machine Age	hrs	Client Info		0		
Oil Changed         Client Info         N/A             Sample Status         Image Status	Oil Age	hrs	Client Info		0		
Sample Status         method         Imit/base         current         history1         history2           Iron         ppm         ASTM D5185(m)         >20         2             Nickel         ppm         ASTM D5185(m)         >10         0             Titanium         ppm         ASTM D5185(m)         10         0             Silver         ppm         ASTM D5185(m)         10         <1	-		Client Info		N/A		
Iron         ppm         ASTM D5185(m)         >20         2             Nickel         ppm         ASTM D5185(m)         >10         0             Nickel         ppm         ASTM D5185(m)         >10         0             Silver         ppm         ASTM D5185(m)         <1					ATTENTION		
Chromium         ppm         ASTM D5185(m)         >10         <1             Nickel         ppm         ASTM D5185(m)         >10         0             Silver         ppm         ASTM D5185(m)         >10         0             Silver         ppm         ASTM D5185(m)         >10         <1			method	limit/base	current	history1	history2
Chromium         ppm         ASTM D5185(m)         >10         <1             Nickel         ppm         ASTM D5185(m)         0             Silver         ppm         ASTM D5185(m)         0             Silver         ppm         ASTM D5185(m)         >10         <1	Iron	ppm	ASTM D5185(m)	>20	2		
Nickel         ppm         ASTM D5185(m)         >10         0             Titanium         ppm         ASTM D5185(m)         <1	Chromium		. /	>10	<1		
Titanium         ppm         ASTM D5185(m)         0             Silver         ppm         ASTM D5185(m)         <1	Nickel		1 I I I I I I I I I I I I I I I I I I I	>10	0		
Silver         ppm         ASTM D5185(m)         <1             Aluminum         ppm         ASTM D5185(m)         >20         <1	Titanium				0		
Aluminum         ppm         ASTM D5185(m)         >10         <1             Lead         ppm         ASTM D5185(m)         >20         <1			. ,		-		
Lead         ppm         ASTM D5/85(m)         >20         <1             Copper         ppm         ASTM D5/85(m)         >20         7             Antimony         ppm         ASTM D5/85(m)         >10         0             Antimony         ppm         ASTM D5/85(m)         0             Vanadium         ppm         ASTM D5/85(m)         0             Cadmium         ppm         ASTM D5/85(m)         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5/85(m)         0             Malganese         ppm         ASTM D5/85(m)         0             Magnesium         ppm         ASTM D5/85(m)         16             Sulfur         ppm         ASTM D5/85(m)         16             Sulfur         ppm         ASTM D5/85(m)         15         2             Sulfu	Aluminum		( )	>10			
Copper         ppm         ASTM D5185(m)         >20         7             Tin         ppm         ASTM D5185(m)         >10         0             Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Beryllium         ppm         ASTM D5185(m)         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         1             Malganese         ppm         ASTM D5185(m)         0             Magnesium         ppm         ASTM D5185(m)              Magnesium         ppm         ASTM D5185(m)              Calcium         ppm         ASTM D5185(m)         16             Sulfur         ppm         ASTM D5185(m)         2             Sulfur         ppm         ASTM D5185(m)         2<							
Tin       ppm       ASTM D5185(m)       >10       0           Antimony       ppm       ASTM D5185(m)       0           Vanadium       ppm       ASTM D5185(m)       0           Beryllium       ppm       ASTM D5185(m)       0           ADDITIVES       method       limit/base       current       history1       history2         Boron       ppm       ASTM D5185(m)       1           Molybdenum       ppm       ASTM D5185(m)       0           Manganese       ppm       ASTM D5185(m)       0            Magnesium       ppm       ASTM D5185(m)       5           Manganese       ppm       ASTM D5185(m)       37       29489           Sulfur       ppm       ASTM D5185(m)       20       5           Sulfur       ppm       ASTM D5185(m)       210            Sulfur       ppm       ASTM D5185(m)       210       2							
Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Beryllium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         6             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0             Maganese         ppm         ASTM D5185(m)         0             Magnesium         ppm         ASTM D5185(m)         0             Calcium         ppm         ASTM D5185(m)         110         77             Sulfur         ppm         ASTM D5185(m)         110         77             Sulfur         ppm         ASTM D5185(m)         20         580             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon <td>Tin</td> <td></td> <td>( )</td> <td></td> <td></td> <td></td> <td></td>	Tin		( )				
Vanadium         ppm         ASTM D5185(m)         0             Beryllium         ppm         ASTM D5185(m)         6             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         1             Barium         ppm         ASTM D5185(m)         0             Maganese         ppm         ASTM D5185(m)         0             Magnesium         ppm         ASTM D5185(m)         5             Magnesium         ppm         ASTM D5185(m)         5             Calcium         ppm         ASTM D5185(m)         110         77             Sulfur         ppm         ASTM D5185(m)         20         5800             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >15         2             Potassium							
Beryllium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         6             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         1             Barium         ppm         ASTM D5185(m)         0             Manganese         ppm         ASTM D5185(m)         0             Calcium         ppm         ASTM D5185(m)         0             Magnesium         ppm         ASTM D5185(m)         0             Calcium         ppm         ASTM D5185(m)         5             Sulfur         ppm         ASTM D5185(m)         37         2 94889             Sulfur         ppm         ASTM D5185(m)         220         580             Sulfur         ppm         ASTM D5185(m)         >15         2             Storium         ppm	•				-		
CadmiumppmASTM D5185(m)6ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185(m)1BariumppmASTM D5185(m)0MolybdenumppmASTM D5185(m)0ManganeseppmASTM D5185(m)5CalciumppmASTM D5185(m)5CalciumppmASTM D5185(m)3729489PhosphorusppmASTM D5185(m)220580SulfurppmASTM D5185(m)220580CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>152CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>2032FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles 5-15µmcountNAS 1638>640005392Particles 5-50µmcountNAS 1638>2025320Particles 5-50µmcountNAS 1638>647Particles 5-100µmcountNAS 1638>647Particles 5-100µm <td></td> <td></td> <td>. /</td> <td></td> <td>-</td> <td></td> <td></td>			. /		-		
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185(m)1BariumppmASTM D5185(m)0MolybdenumppmASTM D5185(m)<1	•				-		
Boron         ppm         ASTM D5185(m)         1             Barium         ppm         ASTM D5185(m)         0             Molybdenum         ppm         ASTM D5185(m)         <1		le le	. ,	limit/bass		biotomid	history Q
Barium       ppm       ASTM D5185(m)       0           Molybdenum       ppm       ASTM D5185(m)       <1           Manganese       ppm       ASTM D5185(m)       0           Magnesium       ppm       ASTM D5185(m)       5           Calcium       ppm       ASTM D5185(m)       10       77          Phosphorus       ppm       ASTM D5185(m)       37       29489           Zinc       ppm       ASTM D5185(m)       16           Sulfur       ppm       ASTM D5185(m)       220       ▲ 580           CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185(m)       >15       2           Sodium       ppm       ASTM D5185(m)       >20       32           Potassium       ppm       ASTM D5185(m)       >20       32           FLUID CLEANLINESS       method       limit/base       current       history1       history2				IIIIIVDase			TIIStOLY2
MolybdenumppmASTM D5185(m)<1ManganeseppmASTM D5185(m)0MagnesiumppmASTM D5185(m)11077CalciumppmASTM D5185(m)3729489PhosphorusppmASTM D5185(m)3729489ZincppmASTM D5185(m)220▲ 580SulfurppmASTM D5185(m)220▲ 580CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>152SodiumppmASTM D5185(m)>2032FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles 5-15µmcountNAS 1638>640005392Particles 52-50µmcountNAS 1638>2025320Particles 50-100µmcountNAS 1638>6Particles >100µmcountNAS 1638>647NAS 1638ClassNAS 1638>86FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2							
Manganese       ppm       ASTM D5185(m)       0           Magnesium       ppm       ASTM D5185(m)       110       77           Calcium       ppm       ASTM D5185(m)       37       ▲ 29489           Phosphorus       ppm       ASTM D5185(m)       37       ▲ 29489           Zinc       ppm       ASTM D5185(m)       220       ▲ 580           Sulfur       ppm       ASTM D5185(m)       220       ▲ 580           Sulfur       ppm       ASTM D5185(m)       220       ▲ 580           CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185(m)       >20       32           Potassium       ppm       ASTM D5185(m)       >20       32           FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles 5-15µm       count       NAS 1638       >64000       5392					-		
Magnesium         ppm         ASTM D5185(m)         110         77             Calcium         ppm         ASTM D5185(m)         37         ▲ 29489             Phosphorus         ppm         ASTM D5185(m)         37         ▲ 29489             Zinc         ppm         ASTM D5185(m)         220         ▲ 580             Sulfur         ppm         ASTM D5185(m)         220         ▲ 580             Lithium         ppm         ASTM D5185(m)         220         ▲ 580             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >15         2             Potassium         ppm         ASTM D5185(m)         >20         32             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles 5-15µm         count         NAS 1638         >64000         5392             Par	-						
Calcium         ppm         ASTM D5185(m)         110         77             Phosphorus         ppm         ASTM D5185(m)         37         4         29489             Zinc         ppm         ASTM D5185(m)         37         4         29489             Sulfur         ppm         ASTM D5185(m)         220         4         580             Lithium         ppm         ASTM D5185(m)         220         4         580             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         >15         2             Sodium         ppm         ASTM D5185(m)         >20         32             Potassium         ppm         ASTM D5185(m)         >20         32             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles 5-15µm         count         NAS 1638         >2025         320 </td <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	-						
PhosphorusppmASTM D5185(m)3729489ZincppmASTM D5185(m)16SulfurppmASTM D5185(m)220580LithiumppmASTM D5185(m)220580CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>152SodiumppmASTM D5185(m)>2032PotassiumppmASTM D5185(m)>2032FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles 5-15µmcountNAS 1638>640005392Particles 15-25µmcountNAS 1638>2025320Particles 50-100µmcountNAS 1638>647NAS 1638ClassNAS 1638>86NAS 1638ClassNAS 1638>86		nnm	ASTM D5185(m)		5		
ZincppmASTM D5185(m)16SulfurppmASTM D5185(m)220▲ 580LithiumppmASTM D5185(m)220▲ 580CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>152SodiumppmASTM D5185(m)>152PotassiumppmASTM D5185(m)>2032FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles 5-15µmcountNAS 1638>640005392Particles 15-25µmcountNAS 1638>2025320Particles 25-50µmcountNAS 1638>36033Particles >100µmcountNAS 1638>86NAS 1638ClassNAS 1638>86FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	-	ppm	. /				
SulfurppmASTM D5185(m)220▲ 580LithiumppmASTM D5185(m)220▲ 1CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>152SodiumppmASTM D5185(m)>2032PotassiumppmASTM D5185(m)>2032FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles 5-15µmcountNAS 1638>640005392Particles 15-25µmcountNAS 1638>2025320Particles 50-100µmcountNAS 1638>36033Particles 50-100µmcountNAS 1638>86NAS 1638ClassNAS 1638>86FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Calcium		ASTM D5185(m)				
LithiumppmASTM D5185(m)<1CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>152SodiumppmASTM D5185(m)>2032PotassiumppmASTM D5185(m)>2032FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles 5-15µmcountNAS 1638>640005392Particles 15-25µmcountNAS 1638>2025320Particles 25-50µmcountNAS 1638>36033Particles 50-100µmcountNAS 1638>647NAS 1638ClassNAS 1638>86FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Calcium Phosphorus	ppm	ASTM D5185(m) ASTM D5185(m)		<mark>/</mark> 29489		
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>152SodiumppmASTM D5185(m)5PotassiumppmASTM D5185(m)>2032FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles 5-15µmcountNAS 1638>640005392Particles 15-25µmcountNAS 1638>2025320Particles 25-50µmcountNAS 1638>36033Particles 50-100µmcountNAS 1638>647NAS 1638ClassNAS 1638>86FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Calcium Phosphorus Zinc	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		<mark>/</mark> 29489		
Silicon         ppm         ASTM D5185(m)         >15         2             Sodium         ppm         ASTM D5185(m)         >20         32             Potassium         ppm         ASTM D5185(m)         >20         32             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles 5-15µm         count         NAS 1638         >64000         5392             Particles 15-25µm         count         NAS 1638         >2025         320             Particles 25-50µm         count         NAS 1638         >2025         320             Particles 50-100µm         count         NAS 1638         >64         7             Particles >100µm         count         NAS 1638         >6              NAS 1638         Class         NAS 1638         >8         6             FLUID DEGRADATION         method         limit/base         current         history1         history2	Calcium Phosphorus	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	37	▲ 29489 16		
Sodium         ppm         ASTM D5185(m)         5             Potassium         ppm         ASTM D5185(m)         >20         32             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles 5-15µm         count         NAS 1638         >64000         5392             Particles 5-15µm         count         NAS 1638         >11400         633             Particles 25-50µm         count         NAS 1638         >2025         320             Particles 50-100µm         count         NAS 1638         >360         33             Particles >100µm         count         NAS 1638         >64         7             NAS 1638         Class         NAS 1638         >8         6             FLUID DEGRADATION         method         limit/base         current         history1         history2	Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	37	<ul> <li>29489</li> <li>16</li> <li>580</li> </ul>		
Potassium         ppm         ASTM D5185(m)         >20         32             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles 5-15µm         count         NAS 1638         >64000         5392             Particles 15-25µm         count         NAS 1638         >11400         633             Particles 25-50µm         count         NAS 1638         >2025         320             Particles 50-100µm         count         NAS 1638         >360         33             Particles 50-100µm         count         NAS 1638         >64         7             Particles >100µm         count         NAS 1638         >64         7             NAS 1638         Class         NAS 1638         >8         6             FLUID DEGRADATION         method         limit/base         current         history1         history2	Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	37 220	<ul> <li>29489</li> <li>16</li> <li>580</li> <li>&lt;1</li> </ul>		
FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles 5-15µm         count         NAS 1638         >64000         5392             Particles 15-25µm         count         NAS 1638         >11400         633             Particles 25-50µm         count         NAS 1638         >2025         320             Particles 50-100µm         count         NAS 1638         >360         33             Particles 50-100µm         count         NAS 1638         >64         7             Particles >100µm         count         NAS 1638         >64         7             NAS 1638         Class         NAS 1638         >8         6             FLUID DEGRADATION         method         limit/base         current         history1         history2	Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method	37 220 limit/base	<ul> <li>▲ 29489</li> <li>16</li> <li>▲ 580</li> <li>&lt;1</li> <li>Current</li> </ul>		
Particles 5-15μm         count         NAS 1638         >64000         5392             Particles 15-25μm         count         NAS 1638         >11400         633             Particles 25-50μm         count         NAS 1638         >2025         320             Particles 25-50μm         count         NAS 1638         >360         33             Particles 50-100μm         count         NAS 1638         >360         33             Particles 50-100μm         count         NAS 1638         >64         7             Particles >100μm         count         NAS 1638         >6              NAS 1638         Class         NAS 1638         >8         6             FLUID DEGRADATION         method         limit/base         current         history1         history2	Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) <b>method</b> ASTM D5185(m)	37 220 limit/base	<ul> <li>29489</li> <li>16</li> <li>580</li> <li>&lt;1</li> <li>current</li> <li>2</li> </ul>		
Particles 15-25μm         count         NAS 1638         >11400         633             Particles 25-50μm         count         NAS 1638         >2025         320             Particles 50-100μm         count         NAS 1638         >360         33             Particles >100μm         count         NAS 1638         >64         7             NAS 1638         Class         NAS 1638         >8         6             FLUID DEGRADATION         method         limit/base         current         history1         history2	Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	37 220 limit/base >15	<ul> <li>29489</li> <li>16</li> <li>580</li> <li>&lt;1</li> <li>current</li> <li>2</li> <li>5</li> </ul>	  history1 	   history2 
Particles 25-50μm         count         NAS 1638         >2025 <b>320</b> Particles 50-100μm         count         NAS 1638         >360 <b>33</b> Particles >100μm         count         NAS 1638         >64 <b>7</b> NAS 1638         Class         NAS 1638         >8 <b>6</b> FLUID DEGRADATION         method         limit/base         current         history1         history2	Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	37 220 limit/base >15 >20	<ul> <li>▲ 29489</li> <li>16</li> <li>▲ 580</li> <li>&lt;1</li> <li>Current</li> <li>2</li> <li>5</li> <li>32</li> </ul>	  history1  	   history2  
Particles 50-100μm         count         NAS 1638         >360         33             Particles >100μm         count         NAS 1638         >64         7             NAS 1638         Class         NAS 1638         >8         6             FLUID DEGRADATION         method         limit/base         current         history1         history2	Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	37 220 limit/base >15 >20 limit/base	<ul> <li>▲ 29489</li> <li>16</li> <li>▲ 580</li> <li>&lt;1</li> <li>Current</li> <li>2</li> <li>5</li> <li>32</li> <li>Current</li> </ul>	  history1   history1	   history2   history2
Particles >100µm         count         NAS 1638         >64         7             NAS 1638         Class         NAS 1638         >8         6             FLUID DEGRADATION         method         limit/base         current         history1         history2	Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles 5-15µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method NAS 1638	37 220 limit/base >15 >20 limit/base >64000	<ul> <li>▲ 29489</li> <li>16</li> <li>▲ 580</li> <li>&lt;1</li> <li>∠urrent</li> <li>2</li> <li>5</li> <li>32</li> <li><urrent< li=""> <li>5392</li> </urrent<></li></ul>	  history1   history1 	  history2   history2 
NAS 1638     Class     NAS 1638     >8     6        FLUID DEGRADATION     method     limit/base     current     history1     history2	Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles 5-15µm Particles 15-25µm	ppm ppm ppm ppm ppm ppm ppm ppm ESS count	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) MAST 1638 NAS 1638	37 220 limit/base >15 >20 limit/base >64000 >11400	<ul> <li>▲ 29489</li> <li>16</li> <li>▲ 580</li> <li>&lt;1</li> <li>2</li> <li>5</li> <li>32</li> <li>current</li> <li>5392</li> <li>633</li> </ul>	  history1   history1  history1	  history2   history2  history2
FLUID DEGRADATION method limit/base current history1 history2	Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ess count count	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) NAS 1638 NAS 1638 NAS 1638	37 220 limit/base >15 >20 limit/base >20 >64000 >11400 >2025	<ul> <li>29489</li> <li>16</li> <li>580</li> <li>&lt;1</li> <li>2</li> <li>5</li> <li>32</li> <li>current</li> <li>5392</li> <li>633</li> <li>320</li> </ul>	  history1   history1  	   history2   history2  
	Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles 5-15µm Particles 15-25µm Particles 25-50µm Particles 50-100µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ESS count count count	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) NAS 1638 NAS 1638 NAS 1638	37 220 20 1 imit/base >20 2 imit/base >64000 >11400 >2025 >360	<ul> <li>▲ 29489</li> <li>16</li> <li>▲ 580</li> <li>&lt;1</li> <li>2</li> <li>5</li> <li>32</li> <li>current</li> <li>5392</li> <li>633</li> <li>320</li> <li>33</li> </ul>	  history1   history1  history1	  history2  history2  history2  history2 
	Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles 5-15µm Particles 15-25µm Particles 25-50µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) NAS 1638 NAS 1638 NAS 1638 NAS 1638	37 220 limit/base >15 >20 limit/base >64000 >11400 >2025 >360 >64	<ul> <li>29489</li> <li>16</li> <li>580</li> <li>&lt;1</li> <li>current</li> <li>2</li> <li>5</li> <li>32</li> <li>current</li> <li>5392</li> <li>633</li> <li>320</li> <li>33</li> <li>7</li> </ul>	  history1   history1  history1  	  history2   history2  history2
	Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles 5-15µm Particles 55-15µm Particles 50-100µm Particles >100µm NAS 1638	ppm ppm ppm ppm ppm ppm ppm ppm ESS count count count count count count count	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) NAS 1638 NAS 1638 NAS 1638 NAS 1638 NAS 1638	37 220 limit/base >15 >20 limit/base >20 limit/base >2025 >360 >64 >8	<ul> <li>▶ 29489</li> <li>16</li> <li>▶ 580</li> <li>&lt;1</li> <li>2</li> <li>5</li> <li>32</li> <li>Current</li> <li>5392</li> <li>633</li> <li>320</li> <li>33</li> <li>7</li> <li>6</li> </ul>	  history1    history1     	  history2   history2              



## **OIL ANALYSIS REPORT**







	00000000	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		
	5/23	Appearance	scalar	Visual*	NORML	NORML		
	Aug 15/23	Odor	scalar	Visual*	NORML	NORML		
		Emulsified Water	scalar	Visual*	>0.750	NEG		
	<b>1</b> 2	Free Water	scalar	Visual*		NEG		
	10				Prod 1 /le o o o			
	WAS 16	FLUID PROPERT		method	limit/base	current	history1	history2
		Visc @ 40°C	cSt	ASTM D7279(m)	10.55	7.9		
	-4 ina	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
25-50µ 50-100µ	NAS 1638 Contamination Level 4 4 4 0 000 >1004	Color				GREEN	no image	no image
		Bottom					no image	no image
		GRAPHS						
		Ferrous Alloys				Particle Count		
		<sup>10</sup> T			1,024,0	T		T <sup>12</sup>
		8 - Iron chromium			512,0	00-		-11
		E 6 - nickel			256,0	00-		-10
		- 4			128,0			-9
					64,0	Abnormal		-8
		0				00-		-7
		Aug 15/23			0.52 Aug 15/23	00-		-6
		Non-ferrous Meta	ls		0,8 ICles	00		-5
		<sup>10</sup> T					N	4
		8 - copper			 ag 2,0		1. A. C.	2
		C					-	-3
		4			1,0			+2
		2 -			5	00-	<u>``</u>	+1
						50 -		-0
		Aug15/23			Aug15/23	25 -		00
		Au			Au	0 5-15µ 15-25µ	25-50µ 50-	100µ >100µ
								2 · · · • • pA
		Viscosity @ 40°C				Acid Number		
		<sup>18</sup>			€ <sup>0.50</sup>	Acid Number		
	Ē	18 16 - Abnormal			0.50 Hoy 0.40	Acid Number		
	10-900	18 16 - Abnormal			ເງິດ.50 ເງິກ 10.40 ພິ 0.30 ພ	Acid Number		
	1.J=0101	18 16 212 12 310 4 Base			(6,0.50 0,40 0,20 0,20	Acid Number		
	100000 mg	18 16 - Abnormal			(P) 0.50 (P) 0.40 (P) 0.30 (P) 0.10 (P) 0.10 (P) 0.10	Acid Number		
	1,000,000	18         Abnormal           16         Abnormal           112         Base           13         10           8         Abnormal			(1)0.50 (1)0.0	Abnormal Base		
	1,400,97,40°	18 16 212 12 310 4 Base			(0,0.50 (0,0.40 (0,0.0 (0,0.0 (0,0.0 (0,0.0 (0,0.0 (0,0.0) (0,	Acid Number		
o 17025:2017 Lab	pratory ple No. Number ue Number	Abnormal Base Comparison Base Comparison Base Comparison Base Comparison Comporison Comporison Comparison Comporison Comporis	Receive Diagnos Diagnos	d : 177 ed : 227 tician : Kev	Aug15/2	Abnomal Base CZ2/S1 DmW	М	KF Aer 0 Airport Roa ount Hope, O CA LOR 1W łelen Krzywic

h.krzywicki@kfaero.ca T: (905)679-3313 F: (905)679-4921