

#### **OIL ANALYSIS REPORT**

### (N883WM) [N883WM] DEHAVILLAND DHC-8-Q400 PCE-FA0449

**EASTMAN TURBO OIL 2380 (26 QTS)** 

## Component Chip Detector Filter

# Sample Rating Trend **WEAR PARTICLES**

#### **DIAGNOSIS**

#### Recommendation

We recommend a resample in 25 hours to monitor this sample.

#### Wear Particles

Two cutting wear chips were submitted for analysis. The first measures 2.3mm x 0.96mm, and the 2nd measures 1.6mm x 0.83mm with a thickness of 0.19mm. The particles were digested and analyzed by ICP Spectroscopy. The most likely alloy matches are Precipitation Hardening Steel (AMS 6415) and Low Alloy Steel (AISI 4340).

				Jan 2023		
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0789101		
Sample Date		Client Info		30 Jan 2023		
Machine Age	hrs	Client Info		17922		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		91		
Chromium	ppm	ASTM D5185(m)		<1		
Nickel	ppm	ASTM D5185(m)		2		
FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*				
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*		2		
Ferrous Rolling	Scale 0-10	ASTM D7684*				
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*				
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*				
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*				
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		N/A		
Patch Weight	mg	ASTM D7684*		N/A		
ADDITIVES		method	limit/base	current	history1	history2
Molybdenum	ppm	ASTM D5185(m)	0	<1		
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image



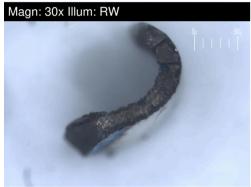
#### **FILTER REPORT**

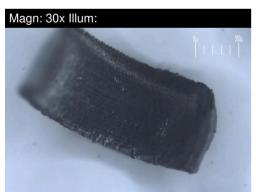
## (N883WM) Machine Id [N883WM] DEHAVILLAND DHC-8-Q400 PCE-FA0449

Chip Detector Filter

EASTMAN TURBO OIL 2380 (26 QTS)







FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*				
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*		_ 2		
Ferrous Rolling	Scale 0-10	ASTM D7684*				
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*				
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*				
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*				
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*				
Patch Weight	mg	ASTM D7684*		N/A		

#### **WEAR**

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