

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

MET EXPRESS Machine Id MET EXPRESS 24020

Component Rear Differential Fluid NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

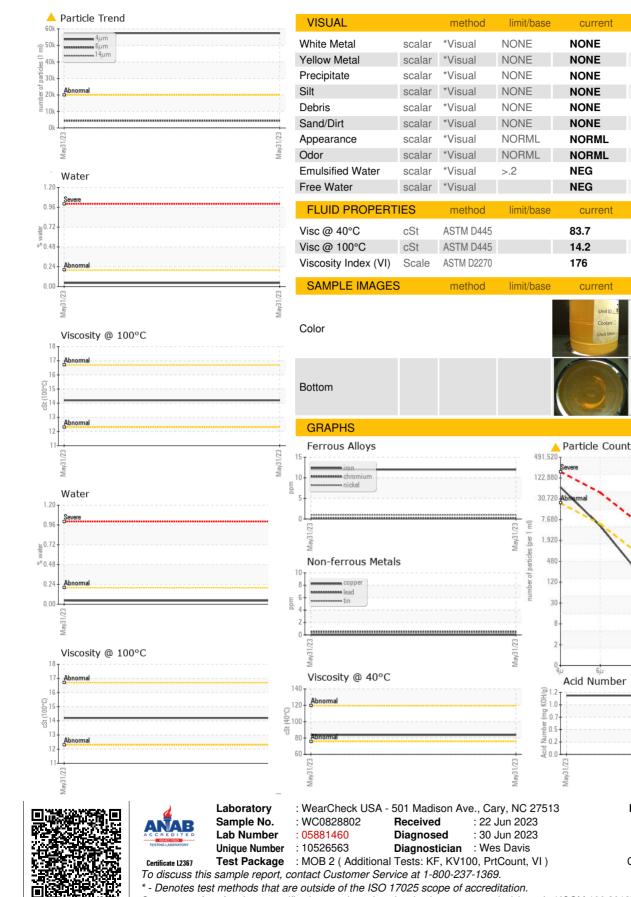
Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATI Sample Number Sample Date mls Oil Age mls Oil Changed Sample Status for WEAR METALS for Chromium ppr Nickel ppr Silver ppr Aluminum ppr Lead ppr Copper ppr Tin ppr Vanadium ppr	Client Info Client Info Client Info Client Info Client Info Client Info ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>10	Current WC0828802 31 May 2023 531 0 N/A ABNORMAL Current 12 <1 1 1	history 1 history 1	history 2
Sample Date Machine Age mls Oil Age mls Oil Age mls Oil Changed Sample Status WEAR METALS Iron ppr Chromium ppr Nickel ppr Titanium ppr Silver ppr Aluminum ppr Lead ppr Copper ppr	Client Info Client Info Client Info Client Info Client Info Client Info ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>500 >10 >10	31 May 2023 531 0 N/A ABNORMAL current 12 <1 1	 history 1	 history 2
Machine Age mls Oil Age mls Oil Changed Sample Status WEAR METALS Iron ppr Chromium ppr Nickel ppr Titanium ppr Silver ppr Aluminum ppr Lead ppr Copper ppr	Client Info Client Info Client Info Client Info ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>500 >10 >10	531 0 N/A ABNORMAL current 12 <1 1	 history 1 	 history 2
Oil Age mls Oil Changed Sample Status WEAR METALS Iron Iron ppr Chromium ppr Nickel ppr Titanium ppr Silver ppr Aluminum ppr Lead ppr Tin ppr	Client Info Client Info Client Info ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>500 >10 >10	0 N/A ABNORMAL current 12 <1 1	 history 1 	 history 2
Oil Changed Sample Status WEAR METALS Iron ppr Chromium ppr Nickel ppr Titanium ppr Silver ppr Aluminum ppr Lead ppr Copper ppr	Client Info method n ASTM D5185m n ASTM D5185m n ASTM D5185m n ASTM D5185m n ASTM D5185m n ASTM D5185m	>500 >10 >10	N/A ABNORMAL current 12 <1 1	 history 1 	 history 2
Sample Status WEAR METALS Iron ppr Chromium ppr Nickel ppr Titanium ppr Silver ppr Aluminum ppr Lead ppr Copper ppr Tin ppr	method n ASTM D5185m n ASTM D5185m n ASTM D5185m n ASTM D5185m n ASTM D5185m n ASTM D5185m n ASTM D5185m	>500 >10 >10	ABNORMAL current 12 <1 1	 history 1 	 history 2
WEAR METALSIronpprChromiumpprNickelpprTitaniumpprSilverpprAluminumpprLeadpprCopperpprTinppr	ASTM D5185m ASTM D5185m	>500 >10 >10	current 12 <1 1	history 1 	history 2
Iron ppr Chromium ppr Nickel ppr Titanium ppr Silver ppr Aluminum ppr Lead ppr Copper ppr	ASTM D5185m ASTM D5185m	>500 >10 >10	12 <1 1		
Chromium ppr Nickel ppr Titanium ppr Silver ppr Aluminum ppr Lead ppr Copper ppr Tin ppr	ASTM D5185m	>10 >10	<1 1		
Nickel ppr Titanium ppr Silver ppr Aluminum ppr Lead ppr Copper ppr Tin ppr	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>10	1		
Titanium ppr Silver ppr Aluminum ppr Lead ppr Copper ppr Tin ppr	n ASTM D5185m n ASTM D5185m n ASTM D5185m		-		
Silver ppr Aluminum ppr Lead ppr Copper ppr Tin ppr	n ASTM D5185m n ASTM D5185m		•		
Aluminum ppr Lead ppr Copper ppr Tin ppr	n ASTM D5185m		0		
Lead ppr Copper ppr Tin ppr			0		
Lead ppr Copper ppr Tin ppr		>25	0		
Copper ppr Tin ppr		>25	<1		
Tin ppr	n ASTM D5185m		0		
		>10	۰ <1		
			0		
Cadmium ppr			0		
ADDITIVES	method	limit/base	-	biotony 1	history
_		IIIIIIVDase	current	history 1	history 2
Boron ppr			90		
Barium ppr			0		
Molybdenum ppr			<1		
Manganese ppr			<1		
Magnesium ppr	n ASTM D5185m		199		
Calcium ppr	n ASTM D5185m		1		
Phosphorus ppr	n ASTM D5185m		2182		
Zinc ppr	n ASTM D5185m		0		
Sulfur ppr	n ASTM D5185m		31140		
CONTAMINANTS	method	limit/base	current	history 1	history 2
Silicon ppr	n ASTM D5185m	>75	2		
Sodium ppr	n ASTM D5185m		2		
Potassium ppr	n ASTM D5185m	>20	3		
Water %	ASTM D6304	>.2	0.043		
ppm Water ppr		>2000	432.4		
FLUID CLEANLINESS	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647	>20000	6 57419		
Particles >6µm	ASTM D7647	>5000	4397		
Particles >14µm	ASTM D7647	>640	176		
Particles >21µm	ASTM D7647	>160	84		
Particles >38µm	ASTM D7647	>40	1		
Particles >71µm	ASTM D7647	>10	0		
Oil Cleanliness	ISO 4406 (c)	>21/19/16	23/19/15		
FLUID DEGRADATIO	N method	limit/base	current	history 1	history 2
	OH/g ASTM D8045		1.14		



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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

history 1

history

history 1

no image

no image

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38,

BASF - GIANNA CREDAROLI

Contact: GIANNA CREDAROLI

gianna.credaroli@basf.com

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TARRYTOWN, NY

current

NONE

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Acid Number

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