

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

ENGEL IM-10 CSI

Hydraulic System Fluid MOBIL DTE 10 EXCEL 46 (100 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the fluid.

Fluid Condition

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCAI24524		-
Sample Date		Client Info		13 Feb 2024		-
Machine Age	mths	Client Info		0		-
Oil Age	mths	Client Info		7		-
Oil Changed		Client Info		N/A		-
Sample Status				ABNORMAL		-
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	<1		
Copper	ppm	ASTM D5185m	>75	2		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		2		
Calcium	ppm	ASTM D5185m		94		
Phosphorus	ppm	ASTM D5185m		124		
Zinc	ppm	ASTM D5185m		8		
Sulfur	ppm	ASTM D5185m		597		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	<1		
FLUID CLEAN	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	69761		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>160	67		
Particles >21µm		ASTM D7647	>40	15		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 23/19/13		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.17		
-20-17) Dov: 1				0		

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Contact/Location: RD HAYMAN - NEWLAFIN



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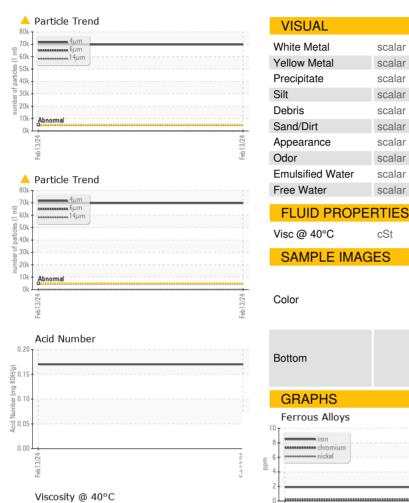
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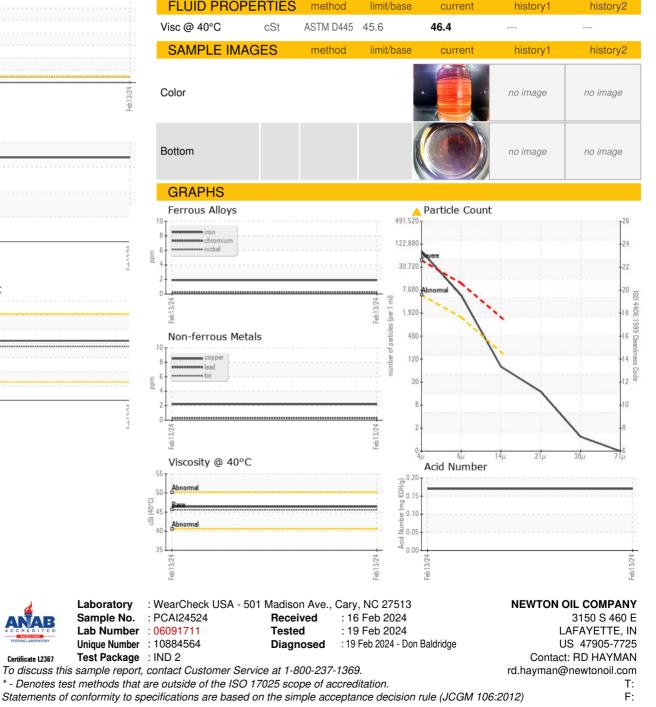
history1

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history2

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