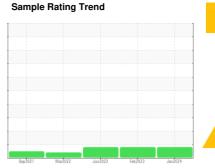


OIL ANALYSIS REPORT

CURING Machine Id [CURING] LINE 2 HYDRAULIC CURING PRESS

Hydraulic System

MOBIL DTE EXCEL ISO 46 (500 LTR)





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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 oil.

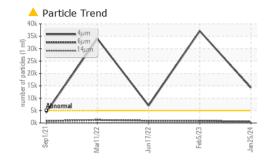
Fluid Condition

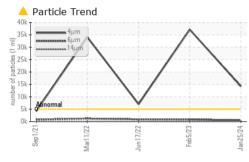
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

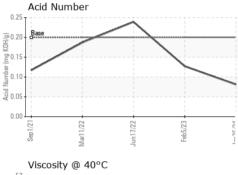
		Sep2021	Mar2022	Jun2022 Feb2023	Jan2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0849598	WC0755606	WC0688513
Sample Date		Client Info		25 Jan 2024	05 Feb 2023	17 Jun 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	6	3	2
Chromium	ppm	ASTM D5185m	>20	3	<1	1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	3	2	5
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		97	104	106
Phosphorus	ppm	ASTM D5185m		424	432	445
Zinc	ppm	ASTM D5185m		23	37	39
Sulfur	ppm	ASTM D5185m		1501	1944	1619
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	<1	<1
Sodium	ppm	ASTM D5185m		1	1	1
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	<u> </u>	△ 37110	▲ 6988
Particles >6µm		ASTM D7647	>1300	532	845	899
Particles >14µm		ASTM D7647	>160	19	21	40
Particles >21µm		ASTM D7647	>40	4	5	7
Particles >38µm		ASTM D7647	>10	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 21/16/11	<u>▲</u> 22/17/12	▲ 20/17/12
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	.2	0.081	0.127	0.239

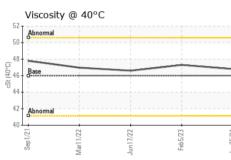


OIL ANALYSIS REPORT



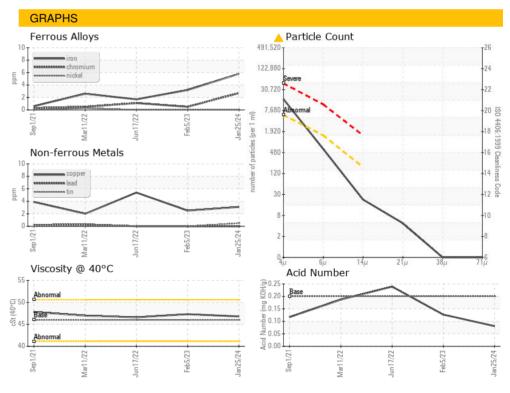






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	46.8	47.3	46.6
SAMPLE IMAGES	3	method	limit/base	current	history1	history2

Color	
Bottom	







Certificate L2367

Laboratory Sample No.

: WC0849598 Lab Number : 06075676 Unique Number : 10857767

Test Package : PLANT

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

Tested : 01 Feb 2024 - Don Baldridge Diagnosed

: 31 Jan 2024 : 01 Feb 2024

NOKIAN TYRES US OPERATIONS LLC

520 NOKIAN TYRES DRIVE DAYTON, TN

US 37321

Contact: Chris Randolph

To discuss this sample report, contact Customer Service at 1-800-237-1369.

christopher.randolph@nokiantyres.com T: (423)457-3121

* - 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)