

OIL ANALYSIS REPORT

CALENDER Machine Id [CALENDER] HYDR_014 HYDRAULIC SUMP 014

Hydraulic System

NOT GIVEN (200 LTR)



Sample Rating Trend



_		0		$\overline{}$		10
	ΙА	G١	м	-	181	15

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

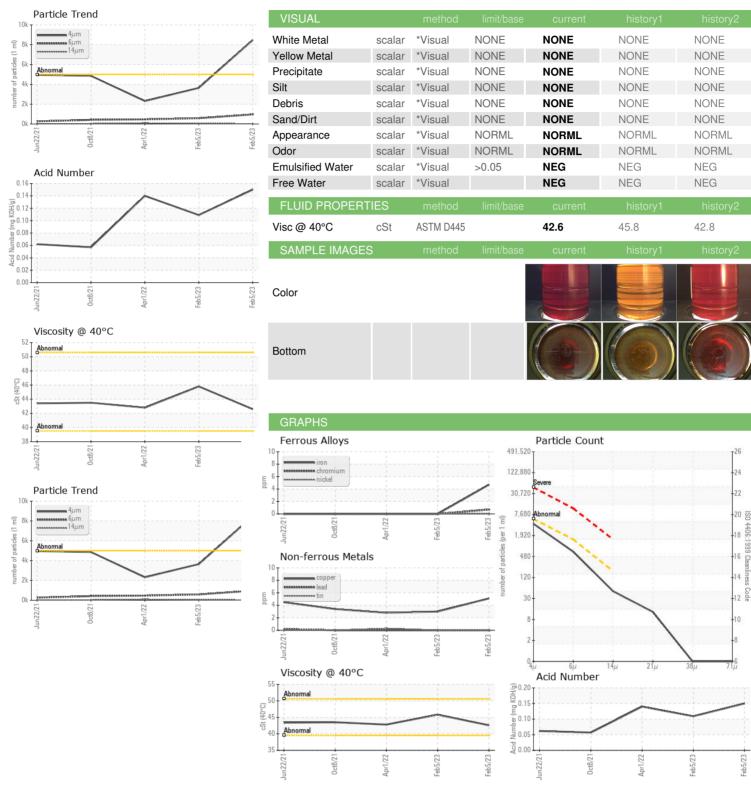
Fluid Condition

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

		Jun2021	0et2021	Apr2022 Feb2023	Feb 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC05759405	WC0755644	WC0641716
Sample Date		Client Info		05 Feb 2023	05 Feb 2023	01 Apr 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				NORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	5	0
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	3	5	3
Tin	ppm	ASTM D5185m	>20	0	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		99	104	108
Phosphorus	ppm	ASTM D5185m		393	425	435
Zinc	ppm	ASTM D5185m		28	34	29
Sulfur	ppm	ASTM D5185m		1773	2067	1586
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	0
Sodium	ppm	ASTM D5185m		2	2	<1
Potassium	ppm	ASTM D5185m	>20	0	0	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	3645	<u></u> 8459	2313
Particles >6µm		ASTM D7647	>1300	581	968	464
Particles >14µm		ASTM D7647	>160	43	23	92
Particles >21µm		ASTM D7647	>40	11	6	36
Particles >38µm		ASTM D7647	>10	0	0	3
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/13	2 0/17/12	18/16/14
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.15	0.109	0.14



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Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC05759405 : 05759405

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

Diagnosed : 10324012 Test Package : PLANT

: 06 Feb 2023 Received : 07 Feb 2023 Diagnostician : Jonathan Hester **NOKIAN TYRES US OPERATIONS LLC**

520 NOKIAN TYRES DRIVE DAYTON, TN

US 37321

Contact: CHRIS NAPIER christopher.napier@nokiantyres.com

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* - 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)