

COMBILINE

OIL ANALYSIS REPORT

[COMBILINE] HYDR_005 HYDRAULIC SUMP 005

Hydraulic System

{not provided} (650 LTR)

Sample Rating Trend



DIAGNOSIS Recommendation Resample at the next service interval to monitor.

All component wear rates are normal.

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

Fluid Condition

Contamination

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

				Feb 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0755638		
Sample Date		Client Info		05 Feb 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>30	<1		
Chromium	ppm	ASTM D5185m	>2	0		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>2	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>25	1		
Tin	ppm	ASTM D5185m	>20	0		
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		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		102		
Phosphorus	ppm	ASTM D5185m		382		
Zinc	ppm	ASTM D5185m		12		
Sulfur	ppm	ASTM D5185m		1787		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.05	NEG		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	3418		
Particles >6µm		ASTM D7647	>1300	750		
Particles >14µm		ASTM D7647	>160	56		
Particles >21µm		ASTM D7647	>40	21		
Particles >38µm		ASTM D7647	>10	2		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/17/13		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

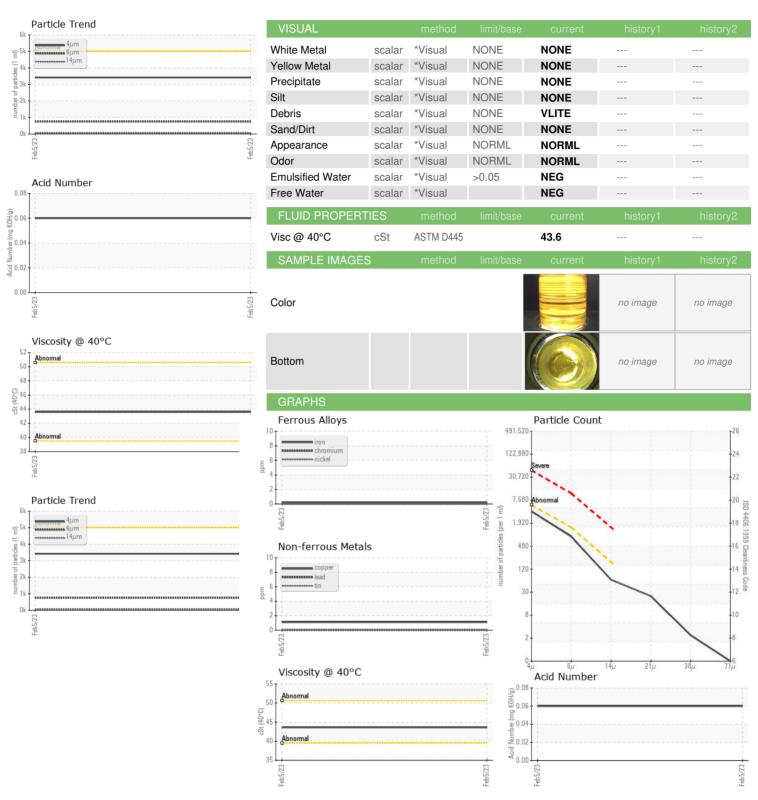
Acid Number (AN)

mg KOH/g ASTM D8045

0.06



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Certificate L2367

Laboratory Sample No. Lab Number Unique Number Test Package : PLANT

: WC0755638 : 05759401 : 10324008

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06 Feb 2023 Recieved : 07 Feb 2023 Diagnosed

: Jonathan Hester Diagnostician

NOKIAN TYRES US OPERATIONS LLC

520 NOKIAN TYRES DRIVE DAYTON, TN US 37321

Contact: CHRIS NAPIER christopher.napier@nokiantyres.com

* - 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)

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