

OIL ANALYSIS REPORT

[CURING] PRESS_031 HYDRAULIC SUMP PRESS 31

Component Hydraulic System

CURING

{not provided} (500 LTR)

Sample Rating Trend



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

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.

		Au	2021	Feb 2023 Jan 20	Jan2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0875651	WC0752522	WC0579023	
Sample Date		Client Info		25 Jan 2024	05 Feb 2023	30 Aug 2021	
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	NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	6	3	<1	
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	<1	
Copper	ppm	ASTM D5185m	>20	7	5	9	
Tin	ppm	ASTM D5185m	>20	<1	0	0	
Antimony	ppm	ASTM D5185m				0	
Vanadium	ppm	ASTM D5185m		<1	0	<1	
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	1	
Manganese	ppm	ASTM D5185m		<1	0	0	
Magnesium	ppm	ASTM D5185m		<1	0	0	
Calcium	ppm	ASTM D5185m		93	105	96	
Phosphorus	ppm	ASTM D5185m		405	427	428	
Zinc	ppm	ASTM D5185m		40	40	52	
Sulfur	ppm	ASTM D5185m		1702	2011	1601	
CONTAMINANTS	5	method	limit/base	current	history1	history2	
Silicon	ppm		>15	1	1	2	
Sodium	ppm	ASTM D5185m		1	1	2	
Potassium	ppm	ASTM D5185m	>20	<1	0	<1	
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	<u> </u>	2755	1992	
Particles >6μm		ASTM D7647	>1300	689	326	354	
Particles >14μm		ASTM D7647	>160	26	23	34	
Particles >21µm		ASTM D7647	>40	4	5	6	
Particles >38μm		ASTM D7647	>10	0	0	0	
Particles >71μm		ASTM D7647	>3	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	19/16/12	18/16/12	
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		0.07	0.083	0.09	



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number

: WC0875651

: 06075677 Unique Number: 10857768 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 Jan 2024 **Tested** : 01 Feb 2024

: 01 Feb 2024 - Don Baldridge Diagnosed

0.00 g

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. * - 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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Submitted By: Chris Randolph