

## **OIL ANALYSIS REPORT**

### Area INNERLINER [INNERLINER] CAL\_004 HYDRAULIC CIRCULATING

Hydraulic System

Fluid {not provided} (40 LTR)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

### 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 acceptable for the time in service.

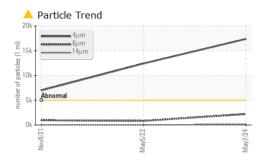
		No	v2021	May2022 May20	24	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0857153	WC0688504	WC0620162
Sample Date		Client Info		07 May 2024	05 May 2022	08 Nov 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>20	0	1	<1
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	<1	0
_ead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	2	3	1
Гin	ppm	ASTM D5185m	>20	<1	<1	<1
Antimony	ppm	ASTM D5185m				0
/anadium	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	5	3
Barium	ppm	ASTM D5185m		<1	0	0
Nolybdenum	ppm	ASTM D5185m		0	0	<1
Vanganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		3	0	<1
Calcium	ppm	ASTM D5185m		7	0	1
Phosphorus	ppm	ASTM D5185m		1251	1175	1114
Zinc	ppm	ASTM D5185m		24	42	23
Sulfur	ppm	ASTM D5185m		0	173	150
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	1	1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	2	<1	1
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 17369	▲ 12401	6970
Particles >6µm		ASTM D7647 ASTM D7647		2207	822	961
Particles >14µm		ASTM D7647	>160	95	23	24
Particles >21µm		ASTM D7647		27	5	3
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	21/18/14	21/17/12	20/17/12
		( )				
FLUID DEGRADA		method	limit/base		history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.36	1.89	0.176

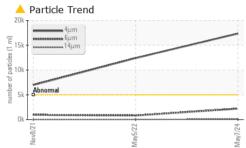
Sample Rating Trend

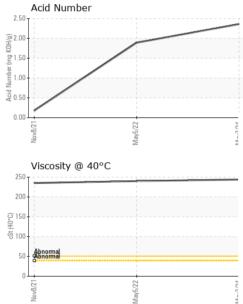
ISO



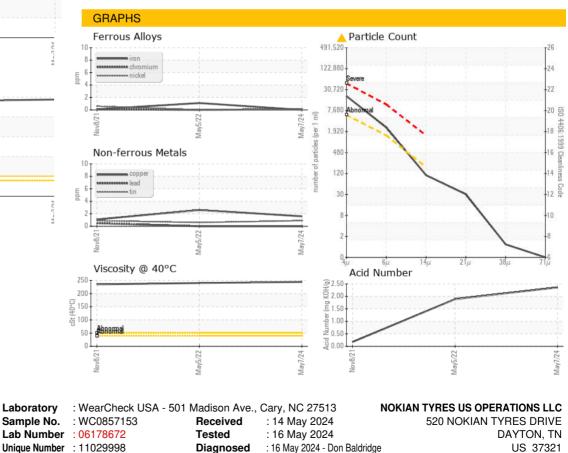
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		244	240	235.1
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color					E	





Unique Number : 11029998 Diagnosed : 16 May 2024 - Don Baldridge Test Package : PLANT Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. christopher.randolph@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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Submitted By: Chris Randolph

Contact: Chris Randolph

T: (423)457-3121

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