

PROBLEM SUMMARY

HIGHLAND [600380488] Machine Id 10WEA80817

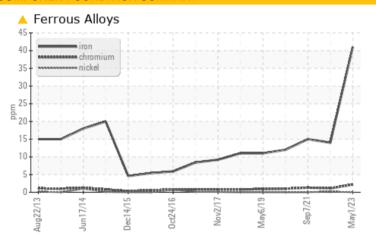
Component

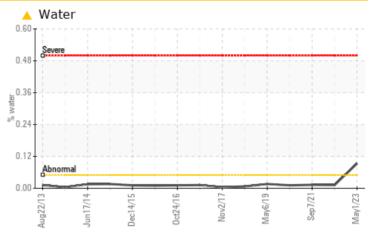
Hydraulic System

SHELL TELLUS ARTIC 32 (--- LTR)

Sample Rating Trend WATER Wa

COMPONENT CONDITION SUMMARY





RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status		ABNORMAL	NORMAL	NORMAL						
Iron	ppm	ASTM D5185m	>20	41	14	15				
Water	%	ASTM D6304	>0.05	△ 0.093	0.012	0.013				
ppm Water	ppm	ASTM D6304	>500	930	126.6	136.2				

Customer Id: NORHIG Sample No.: NX05928187 Lab Number: 05928187 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

06 Jun 2022 Diag: Angela Borella

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



07 Sep 2021 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



21 May 2020 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

HIGHLAND [600380488] 10WEA80817

Component

Hydraulic System

SHELL TELLUS ARTIC 32 (--- LTR)

Sample Rating Trend **WATER**

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

The iron level is abnormal. All other component wear rates are normal.

Contamination

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

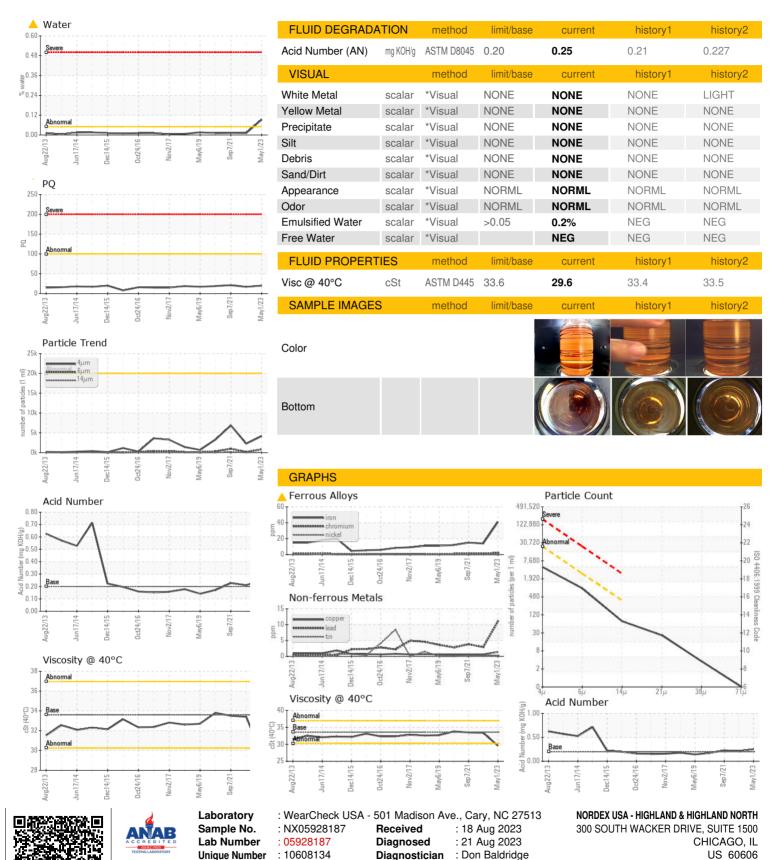
Fluid Condition

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

		Aug2013 Jun	2014 Dec2015 Oct201	6 Nov2017 May2019 Sep20	21 May202:	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX05928187	NX05602779	NX05387358
Sample Date		Client Info		01 May 2023	06 Jun 2022	07 Sep 2021
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	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
PQ		ASTM D8184		20	17	21
Iron	ppm	ASTM D5185m	>20	41	14	15
Chromium	ppm	ASTM D5185m	>20	2	1	1
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	11	3	4
Copper	ppm	ASTM D5185m	>20	1	<1	<1
Tin	ppm	ASTM D5185m	>20	<1	<1	<1
Antimony	ppm	ASTM D5185m				0
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	5	0	<1	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	0	1	<1	1
Calcium	ppm	ASTM D5185m	5	35	7	8
Phosphorus	ppm	ASTM D5185m	600	577	556	594
Zinc	ppm	ASTM D5185m	50	136	121	132
Sulfur	ppm	ASTM D5185m	900	1468	1184	1030
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	2	2
Sodium	ppm	ASTM D5185m		<1	<1	1
Potassium	ppm	ASTM D5185m	>20	1	0	1
Water	%	ASTM D6304	>0.05	△ 0.093	0.012	0.013
ppm Water	ppm	ASTM D6304	>500	△ 930	126.6	136.2
FLUID CLEANLINI	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	4159	2263	6866
Particles >6µm		ASTM D7647	>2500	809	195	975
Particles >14μm		ASTM D7647	>320	65	21	139
Particles >21μm		ASTM D7647		22	6	48
Particles >38µm		ASTM D7647	>20	3	0	7
Particles >71µm		ASTM D7647	>4	0	0	2
Oil Cleanliness		ISO 4406 (c)	>21/18/15	19/17/13	18/15/12	20/17/14
		(*)		· -		



OIL ANALYSIS REPORT



Test Package : IND 2 (Additional Tests: KF, PQ)

* - 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)

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

Certificate L2367

T: x: F: x:

Contact: Robert Warner

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