

OIL ANALYSIS REPORT

Sample Rating Trend



Area **FRONTIER II [200006776]** Machine Id **16WEA86916** Component

Fluid FUCHS RENOLIN CLP ISO 320 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination 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.

		Jun202	1 Oct2021	Aug2022 M	ay2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX05867873	NX05629999	NX05391861
Sample Date		Client Info		11 May 2023	29 Aug 2022	08 Oct 2021
Machine Age	hrs	Client Info		13460	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>80	12	16	20
Iron	ppm	ASTM D5185m	>150	20	14	7
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m	>10	0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	0
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>50	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m	>5			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		4	0	9
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		3	10	8
Phosphorus	ppm	ASTM D5185m		151	194	199
Zinc	ppm	ASTM D5185m		0	6	0
Sulfur	ppm	ASTM D5185m		6095	5022	4478
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	14	3	4
Sodium	ppm	ASTM D5185m	>20	3	2	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	0.007	0.013	0.009
ppm Water	ppm	ASTM D6304	>500	78.2	136.1	91.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		5765	12310	3550
Particles >6µm		ASTM D7647	>2500	1277	2303	487
Particles >14µm		ASTM D7647	>320	40	178	28
Particles >21µm		ASTM D7647	>80	8	50	2
Particles >38µm		ASTM D7647	>20	1	2	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	20/17/12	21/18/15	19/16/12
		. /				



Water

Dct8/21

0.12 S

0.10 0.08 90.0 Abr

0.04

0.02

0.00

200

150

문100 50

20

particles (

umhar 51 Ok

> 360 350

> 340

300

280

200 150

쉽100

50

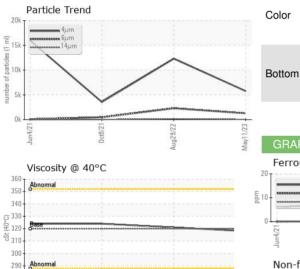
PQ

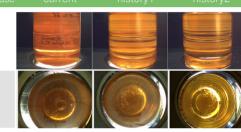
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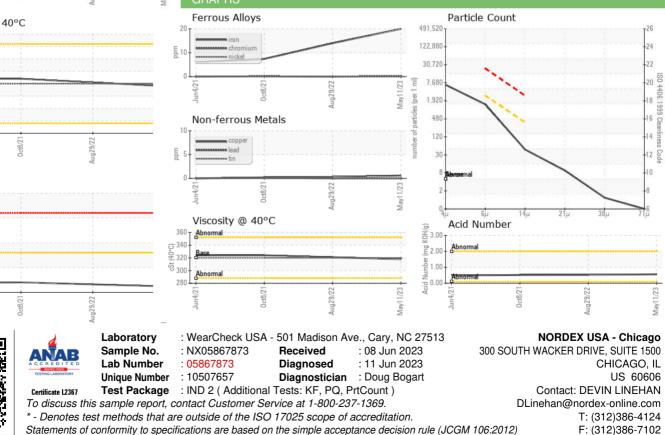
PQ

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FLUID DEGRADATION		method				history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.56	0.52	0.515
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	320	318	321	324
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
				11 22		







Contact/Location: DEVIN LINEHAN - NORDEX