

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

NORTH 506 (S/N PM30226396450)

Component **Gearbox**

USPI FG GEAR 220 (11 GAL)

Recommendation

Resample at the next service interval to monitor.

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.

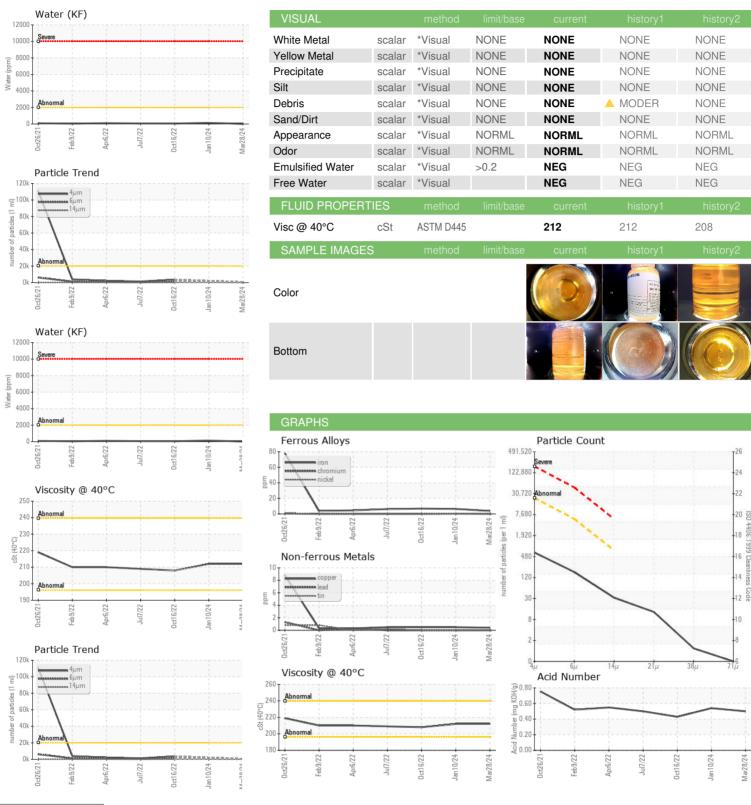
Fluid Condition

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

		0ct2021	Feb2022 Apr2022	Jul2022 Oct2022 Jan2024	Mar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36655	USPM30614	USP05668786
Sample Date		Client Info		28 Mar 2024	10 Jan 2024	16 Oct 2022
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				NORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	4	6	7
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	<1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>25	0	0	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		0	0	0
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m		7	5	4
Phosphorus	ppm	ASTM D5185m		619	591	551
Zinc	ppm	ASTM D5185m		1	0	1
Sulfur	ppm	ASTM D5185m		552	522	703
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	6	9	9
Sodium	ppm	ASTM D5185m		0	1	0
Potassium	ppm	ASTM D5185m	>20	1	<1	0
Water	%	ASTM D6304	>0.2	0.001	0.013	0.005
ppm Water	ppm	ASTM D6304	>2000	15	139	50.6
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	552		3634
Particles >6µm		ASTM D7647	>5000	152		1188
Particles >14μm		ASTM D7647	>640	28		186
Particles >21µm		ASTM D7647	>160	11		28
Particles >38μm		ASTM D7647	>40	1		2
Particles >71μm		ASTM D7647	>10	0		0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	16/14/12		19/17/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.50	0.54	0.43



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number

Unique Number : 10967132

: USPM36655 : 06142324 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Apr 2024

Tested : 11 Apr 2024 Diagnosed

: 11 Apr 2024 - Doug Bogart

LIVERPOOL, NY US 13090 Contact: SEAN BERTRAND sean_bertrand@cargill.com

CARGILL ANIMAL NUTRITION - LIVERPOOL

7700 MALTLAGE DR

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

Report Id: CARLIVNY [WUSCAR] 06142324 (Generated: 04/12/2024 08:21:02) Rev: 1

Contact/Location: SEAN BERTRAND - CARLIVNY

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