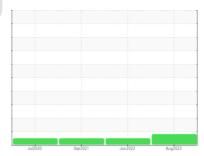


# **OIL ANALYSIS REPORT**

# H&P TRANSP Machine Id H&P TRANSP 211

**Front Differential** 

NOT GIVEN (--- GAL)



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 < 6 microns in size) present in the oil.

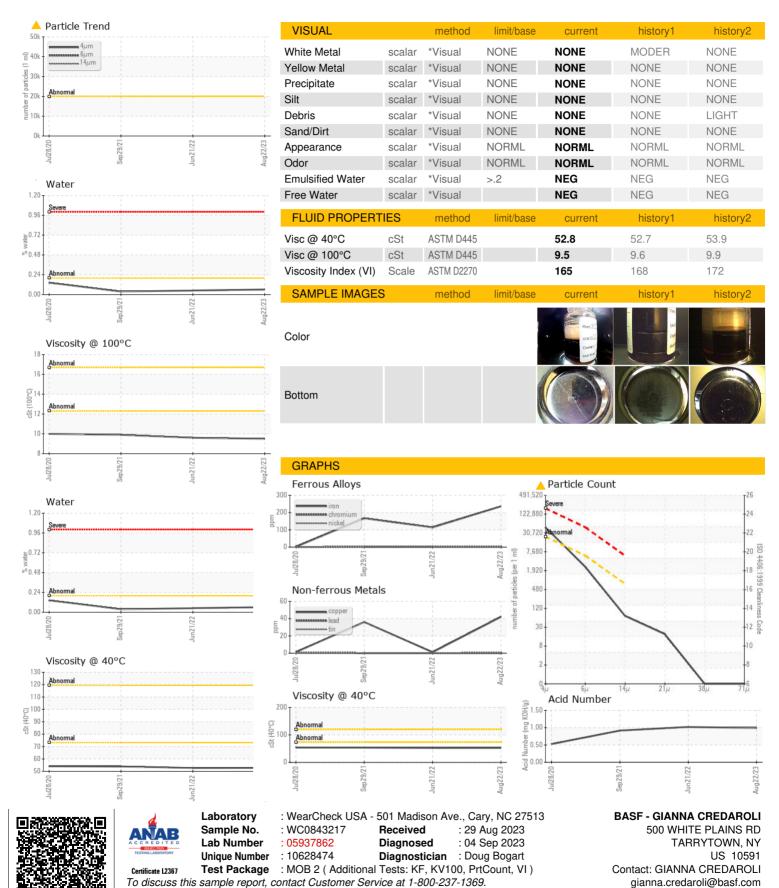
#### **Fluid Condition**

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

		Jul2020	) Sep2021	Jun 2022 Au	ug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0843217	WC0692990	WC0624356
Sample Date		Client Info		22 Aug 2023	21 Jun 2022	29 Sep 2021
Machine Age	kms	Client Info		106294	96817	71929
Oil Age	kms	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
ron	ppm	ASTM D5185m	>500	236	114	167
Chromium	ppm	ASTM D5185m	>10	1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Γitanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	3	4	<1
_ead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m		42	1	36
Γin	ppm	ASTM D5185m	>10	<1	<1	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES	ррш	method	limit/base	-	history1	
			IIIIII/base	current		history2
Boron	ppm	ASTM D5185m		90	41	103
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		11	2	8
Magnesium	ppm	ASTM D5185m		147	126	138
Calcium	ppm	ASTM D5185m		2	24	<1
Phosphorus	ppm	ASTM D5185m		1625	1107	1524
Zinc	ppm	ASTM D5185m		9	2	3
Sulfur	ppm	ASTM D5185m		27397	17589	20583
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	39	11	27
Sodium	ppm	ASTM D5185m		6	27	5
Potassium	ppm	ASTM D5185m	>20	<1	6	2
Vater	%	ASTM D6304	>.2	0.061	0.049	0.037
pm Water	ppm	ASTM D6304	>2000	619.4	495.5	377.8
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>40030</b>		
Particles >6µm		ASTM D7647	>5000	2222		
Particles >14µm		ASTM D7647	>640	61		
Particles >21µm		ASTM D7647	>160	16		
Particles >38µm		ASTM D7647	>40	0		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>^</u> 23/18/13		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.99	1.02	0.915



## **OIL ANALYSIS REPORT**



\* - 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)

T: F: