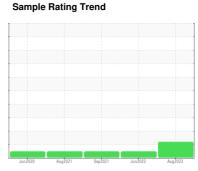


OIL ANALYSIS REPORT

H&P TRANSP Machine Id H&P TRANSP 054

Rear Differential

NOT GIVEN (--- GAL)





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 < 14 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.

		Jun2020	Aug2021	Sep2021 Jun2022	Aug2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0843219	WC0692991	WC0624357
Sample Date		Client Info		22 Aug 2023	09 Jun 2022	29 Sep 2021
Machine Age	kms	Client Info		124236	85442	65193
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
Iron	ppm	ASTM D5185m	>500	217	78	169
Chromium	ppm	ASTM D5185m	>10	2	<1	2
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	<1	1
Aluminum	ppm	ASTM D5185m	>25	4	<1	1
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	0	9	<1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m	>5			0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		96	19	76
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		7	4	6
Magnesium	ppm	ASTM D5185m		151	84	137
Calcium	ppm	ASTM D5185m		9	2	8
Phosphorus	ppm	ASTM D5185m		1657	704	1623
Zinc	ppm	ASTM D5185m		0	11	6
Sulfur	ppm	ASTM D5185m		28115	12438	21607
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	16	5	14
Sodium	ppm	ASTM D5185m		6	8	6
Potassium	ppm	ASTM D5185m	>20	0	11	<1
Water	%	ASTM D6304	>.2	0.055	0.046	0.045
ppm Water	ppm	ASTM D6304	>2000	551.2	465.9	451.7
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	162447		
Particles >6µm		ASTM D7647	>5000	△ 6243		
Particles >14μm		ASTM D7647	>640	16		
Particles >21μm		ASTM D7647	>160	5		
Particles >38µm		ASTM D7647	>40	0		
Particles >71μm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>^</u> 25/20/11		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

0.64



OIL ANALYSIS REPORT

