

PROBLEM SUMMARY

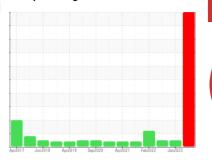
Sample Rating Trend

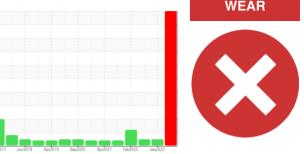
WEAR

WWTP GD (S/N WASTE WATER)

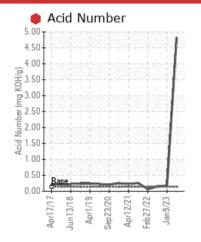
Air Compressor

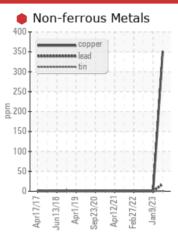
PETRO CANADA FS-600 (--- GAL)

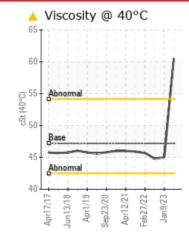


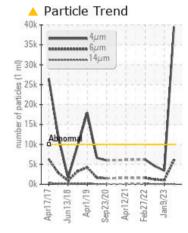


COMPONENT CONDITION SUMMARY









RECOMMENDATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS										
Sample Status				SEVERE	NORMAL	NORMAL				
Lead	ppm	ASTM D5185m	>20	<u> </u>	0	0				
Copper	ppm	ASTM D5185m	>40	351	<1	<1				
Particles >4µm		ASTM D7647	>10000	4 39484	3416	4567				
Particles >6µm		ASTM D7647	>2500	△ 6038	1062	1202				
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>22/20/13</u>	19/17/13	19/17/14				
Acid Number (AN)	mg KOH/g	ASTM D8045	0.14	4.824	0.18	0.15				
Visc @ 40°C	cSt	ASTM D445	47.2	△ 60.5	45.0	44.8				

Customer Id: SMIGRAKY Sample No.: USPM17744 Lab Number: 05935425 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

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

RECOMMENDED ACTIONS Action **Status** Date Done By Description Recommend drain oil if not already done and flush with cleaner before ? Change Fluid refilling with oil. Recommend drain oil if not already done and flush with cleaner before Flush System ? refilling with oil. ? Resample We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

09 Jan 2023 Diag: Doug Bogart

NORMAL



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

view report

15 Sep 2022 Diag: Doug Bogart

NORMAL



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

view report

27 Feb 2022 Diag: Doug Bogart

ADDITIVES



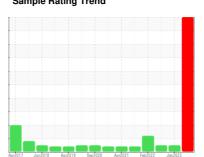
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. Additive levels indicate the addition of a different brand or type of oil. Confirmed. The AN level is acceptable for this fluid.





OIL ANALYSIS REPORT

Sample Rating Trend





WWTP GD (S/N WASTE WATER)

Air Compressor

PETRO CANADA FS-600 (--- GAL)

DIAGNOSIS

Recommendation

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

Bearing and/or bushing wear is indicated.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is above the recommended limit. The oil viscosity is higher than normal. Confirmed.

April 21 - Juni 21 1 - April 21 2 - Gori 2020 - April 22 2 - Feb 2022 - Juni 2023								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		USPM17744	USPM25416	USPR000809		
Sample Date		Client Info		24 Aug 2023	09 Jan 2023	15 Sep 2022		
Machine Age	hrs	Client Info		0	0	0		
Oil Age	hrs	Client Info		0	0	0		
Oil Changed		Client Info		N/A	N/A	N/A		
Sample Status				SEVERE	NORMAL	NORMAL		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>50	19	0	0		
Chromium	ppm	ASTM D5185m	>4	0	0	0		
Nickel	ppm	ASTM D5185m	>4	0	0	0		
Titanium	ppm	ASTM D5185m		0	0	0		
Silver	ppm	ASTM D5185m		0	0	<1		
Aluminum	ppm	ASTM D5185m	>10	1	0	0		
Lead	ppm	ASTM D5185m	>20	<u> </u>	0	0		
Copper	ppm	ASTM D5185m	>40	351	<1	<1		
Tin	ppm	ASTM D5185m	>5	<1	0	<1		
Antimony	ppm	ASTM D5185m						
Vanadium	ppm	ASTM D5185m		<1	0	0		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m		17	0	0		
Barium	ppm	ASTM D5185m	20	34	1	1		
Molybdenum	ppm	ASTM D5185m		0	0	0		
Manganese	ppm	ASTM D5185m		1	0	0		
Magnesium	ppm	ASTM D5185m		5	0	0		
Calcium	ppm	ASTM D5185m	20	34	0	0		
Phosphorus	ppm	ASTM D5185m	320	46	83	71		
Zinc	ppm	ASTM D5185m	20	810	65	53		
Sulfur	ppm	ASTM D5185m	3000	196	620	420		
CONTAMINANTS	;	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	2	<1	<1		
Sodium	ppm	ASTM D5185m		6	<1	0		
Potassium	ppm	ASTM D5185m	>20	7	0	0		
Water	%	ASTM D6304	>0.6	0.010	0.053	0.055		
ppm Water	ppm	ASTM D6304	>6000	103.8	535.3	550.7		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>10000	△ 39484	3416	4567		
Particles >6µm		ASTM D7647	>2500	<u>^</u> 6038	1062	1202		
Particles >14µm		ASTM D7647	>320	67	68	83		
Particles >21µm		ASTM D7647	>80	13	10	16		
Particles >38µm		ASTM D7647	>20	0	0	1		
Particles >71µm		ASTM D7647	>4	0	0	0		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>22/20/13</u>	19/17/13	19/17/14		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2		
				_				

mg KOH/g ASTM D8045 0.14

Acid Number (AN)

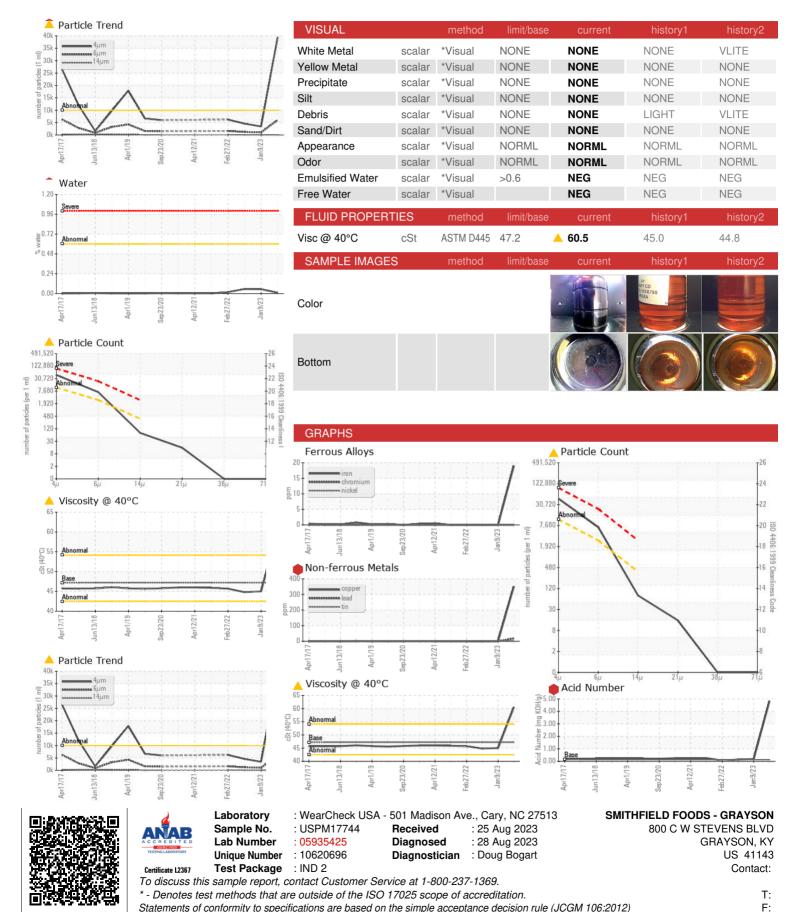
4.824

0.18

0.15



OIL ANALYSIS REPORT



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)