

OIL ANALYSIS REPORT

Sample Rating Trend



[] CRANE 4

Main Hoist

PETRO CANADA ENDURATEX EP 220 (--- GAL)

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.

Fluid Condition

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

,			Sep2022	Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0101589	PCA0080281	
Sample Date		Client Info		28 Aug 2023	22 Sep 2022	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	Not Changd	
Sample Status				NORMAL	NORMAL	
WEAR METALS	S	method	limit/base	current	history1	history2
PQ		ASTM D8184		11	6	
Iron	ppm	ASTM D5185m	>20	3	3	
Chromium	ppm	ASTM D5185m	>20	0	0	
Nickel	ppm	ASTM D5185m	>20	<1	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>20	0	0	
Lead	ppm	ASTM D5185m	>20	0	0	
Copper	ppm	ASTM D5185m	>20	0	0	
Tin	ppm	ASTM D5185m	>20	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	60	4	5	
Barium	ppm	ASTM D5185m	0	13	0	
Molybdenum	ppm	ASTM D5185m	0	<1	<1	
Manganese	ppm	ASTM D5185m	0	0	0	
Magnesium	ppm	ASTM D5185m	0	<1	<1	
Calcium	ppm	ASTM D5185m	0	13	14	
Phosphorus	ppm	ASTM D5185m	270	282	274	
Zinc	ppm	ASTM D5185m	0	14	9	
Sulfur	ppm	ASTM D5185m	11200	10560	11945	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	14	12	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	3	4	
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	0.46	0.44	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Precipitate			NONE	NONE NONE	NONE NONE	
Precipitate Silt	scalar	*Visual		-		
Precipitate Silt Debris	scalar scalar	*Visual *Visual	NONE	NONE	NONE	
Precipitate Silt Debris Sand/Dirt	scalar scalar scalar	*Visual *Visual *Visual	NONE NONE	NONE	NONE NONE	
Precipitate Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NONE	NONE NONE NONE	NONE NONE NONE	
Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NONE NORML	NONE NONE NORML NORML NEG	NONE NONE NORML	



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Contact/Location: BRAD ELLIS - SDITER

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