

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
CR256
Component
Main Winch

PETRO CANADA ENDURATEX EP 220 (--- LTR)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

PQ levels are abnormal. Chromium and iron ppm levels are abnormal. Aluminum ppm levels are noted. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.

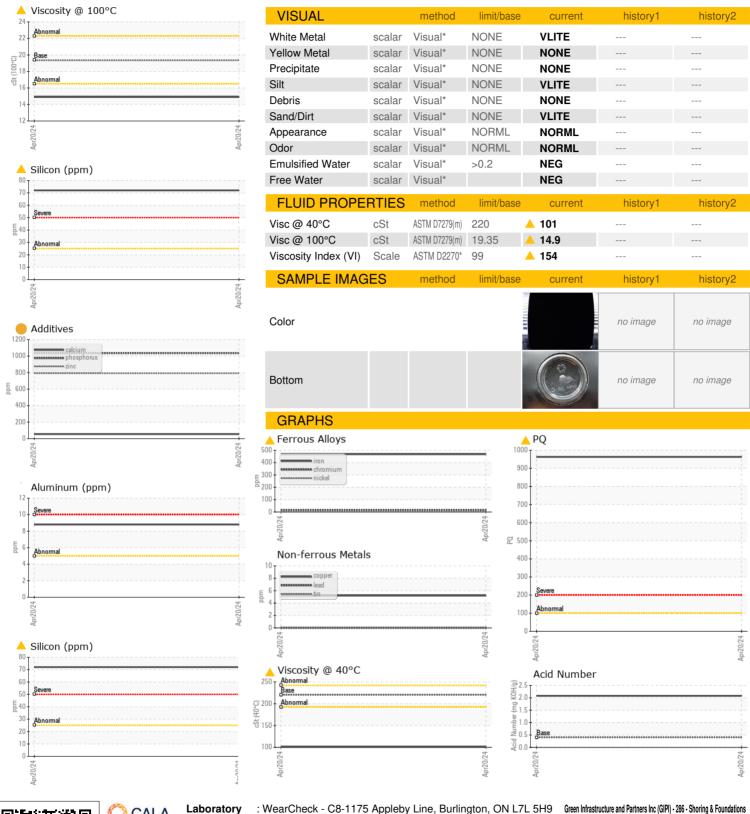
Fluid Condition

Viscosity of sample indicates oil is within SAE 5W40 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

LIK)				Apr2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0080530		
Sample Date		Client Info		20 Apr 2024		
Machine Age	hrs	Client Info		8727		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
PQ		ASTM D8184*		963		
Iron	ppm	ASTM D5185(m)	>150	468		
Chromium	ppm	ASTM D5185(m)	>10	<u> </u>		
Nickel	ppm	ASTM D5185(m)	>10	<1		
Titanium	ppm	ASTM D5185(m)		1		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>5	9		
Lead	ppm	ASTM D5185(m)	>15	0		
Copper	ppm	ASTM D5185(m)	>80	5		
Tin	ppm	ASTM D5185(m)		0		
Antimony	ppm	ASTM D5185(m)	>5	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	60	3		
Barium	ppm	ASTM D5185(m)	0	4		
Molybdenum	ppm	ASTM D5185(m)	0	57		
Manganese	ppm	ASTM D5185(m)	0	10		
Magnesium	ppm	ASTM D5185(m)	0	5485		
Calcium	ppm	ASTM D5185(m)	0	55		
Phosphorus	ppm	ASTM D5185(m)	270	1036		
Zinc	ppm	ASTM D5185(m)	0	792		
Sulfur	ppm	ASTM D5185(m)	11200	3602		
Lithium	ppm	ASTM D5185(m)		4		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	^ 72		
Sodium	ppm	ASTM D5185(m)		4		
Potassium	ppm	ASTM D5185(m)	>20	<1		
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.40	2.08		



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: PC0080530 Lab Number : 02631374 Unique Number : 5772527

Received : 25 Apr 2024 **Tested**

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

: 25 Apr 2024 Diagnosed : 26 Apr 2024 - Kevin Marson Test Package : IND 2 (Additional Tests: KV100, TAN Man, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131.

CA L4A 2G8 Contact: Shannon Abbott sabbott@gipi.com T: (905)750-5900

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Stouffville, ON

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Contact/Location: Shannon Abbott - GFL286