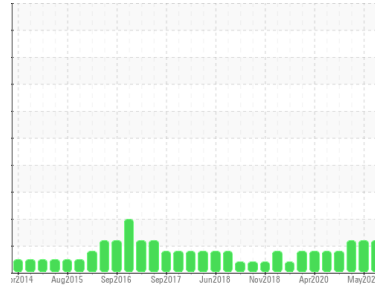
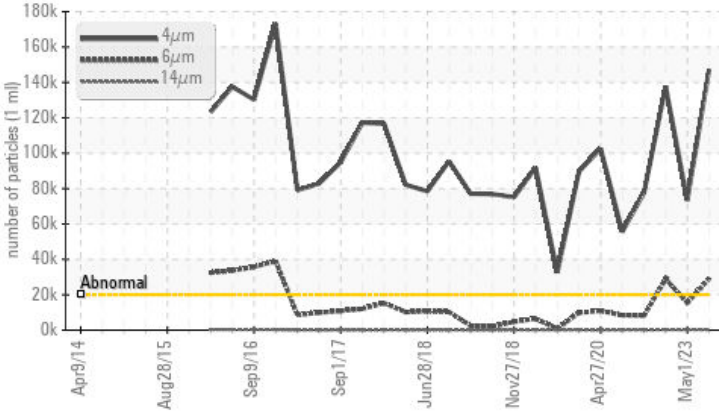


Machine Id
TRAYLOR 54-74 B101-211 GC1 CRUSHER OIL
Component
Gearbox
Fluid
PETRO CANADA ENDURATEX EP 320 (2200 LTR)



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>20000	▲ 147104	▲ 73424	▲ 137757
Particles >6µm	ASTM D7647	>5000	▲ 29021	▲ 15338	▲ 28919
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 24/22/15	▲ 23/21/15	▲ 24/22/15

Customer Id: HOLCOL
Sample No.: PC0062136
Lab Number: 02600249
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Wes Davis +1 905-569-8600 x223
wesd@wearcheck.ca

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

01 May 2023 Diag: Wes Davis

ISO



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

view report



06 Dec 2022 Diag: Wes Davis

ISO



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. Oil Cleanliness are abnormally high. Particles >4µm are abnormally high. Particles >6µm are abnormally high. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

view report



19 Jul 2021 Diag: Wes Davis

ISO

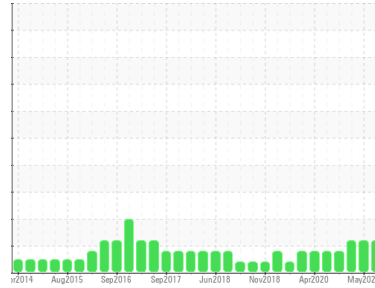


We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. Particles >4µm are abnormally high. Particles >6µm are notably high. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



Machine Id
TRAYLOR 54-74 B101-211 GC1 CRUSHER OIL
Component
Gearbox
Fluid
PETRO CANADA ENDURATEX EP 320 (2200 LTR)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PC0062136	PC0062139	PC0062133
Sample Date	Client Info			22 Nov 2023	01 May 2023	06 Dec 2022
Machine Age	hrs	Client Info		3473	2091	12672
Oil Age	hrs	Client Info		1757	375	3132
Oil Changed	Client Info			Not Chngd	Not Chngd	Not Chngd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	NEG	NEG	NEG

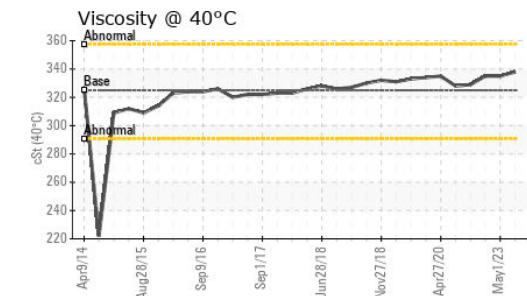
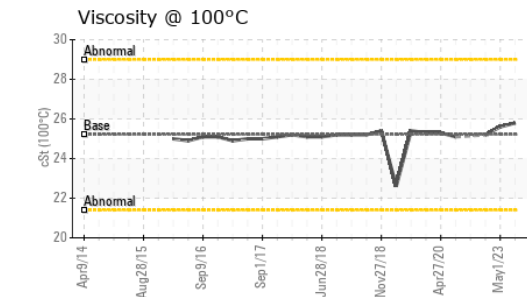
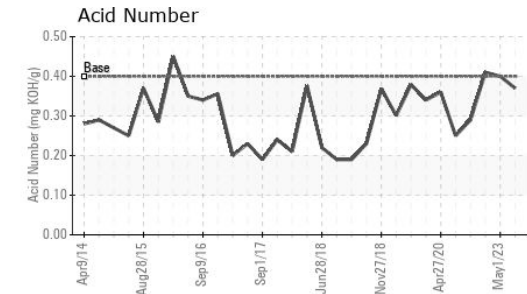
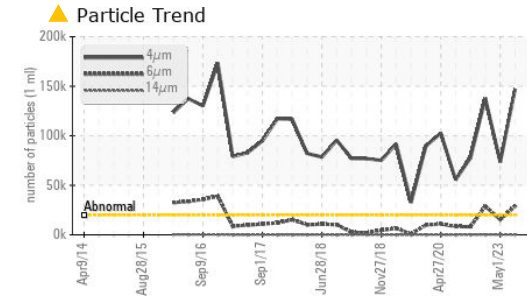
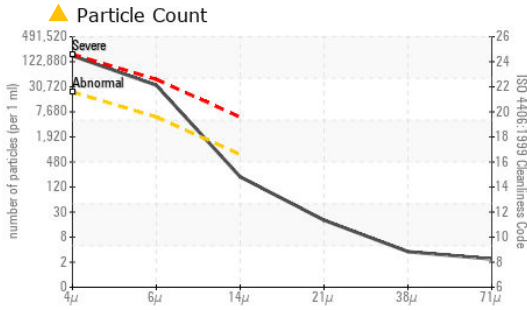
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	8	5	13
Chromium	ppm	ASTM D5185(m)	>15	0	0	0
Nickel	ppm	ASTM D5185(m)	>15	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>100	4	2	8
Copper	ppm	ASTM D5185(m)	>200	19	10	33
Tin	ppm	ASTM D5185(m)	>25	1	<1	2
Antimony	ppm	ASTM D5185(m)	>5	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	55	36	49	20
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	0	0	0	<1
Calcium	ppm	ASTM D5185(m)	0	3	0	2
Phosphorus	ppm	ASTM D5185(m)	240	225	259	231
Zinc	ppm	ASTM D5185(m)	1	3	2	3
Sulfur	ppm	ASTM D5185(m)	13700	4399	5161	5804
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	6	6	6
Sodium	ppm	ASTM D5185(m)		<1	0	<1
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ 147104	▲ 73424	▲ 137757
Particles >6µm		ASTM D7647	>5000	▲ 29021	▲ 15338	▲ 28919
Particles >14µm		ASTM D7647	>640	186	201	234
Particles >21µm		ASTM D7647	>160	17	38	27
Particles >38µm		ASTM D7647	>40	3	11	1
Particles >71µm		ASTM D7647	>10	2	9	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 24/22/15	▲ 23/21/15	▲ 24/22/15

OIL ANALYSIS REPORT



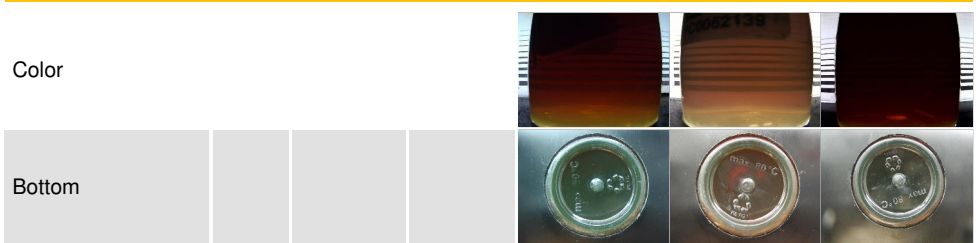
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974* 0.4	0.37	0.40	0.41
VISUAL				
method	limit/base	current	history1	history2
White Metal	scalar Visual* NONE	NONE	NONE	NONE
Yellow Metal	scalar Visual* NONE	NONE	NONE	NONE
Precipitate	scalar Visual* NONE	NONE	NONE	NONE
Silt	scalar Visual* NONE	NONE	NONE	NONE
Debris	scalar Visual* NONE	NONE	NONE	NONE
Sand/Dirt	scalar Visual* NONE	NONE	NONE	NONE
Appearance	scalar Visual* NORML	NORML	NORML	NORML
Odor	scalar Visual* NORML	NORML	NORML	NORML
Emulsified Water	scalar Visual* >0.2	NEG	NEG	NEG
Free Water	scalar Visual*	NEG	NEG	NEG

FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m) 325	338	335	335
Visc @ 100°C	cSt ASTM D7279(m) 25.22	25.8	25.6	25.2
Viscosity Index (VI)	Scale ASTM D2270* 100	99	99	97

SAMPLE IMAGES



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0062136
Lab Number : **02600249**
Unique Number : 5685329
Test Package : IND 2 (Additional Tests: KV100, TAN Man, VI)

CRH Canada – Ogden Point Quarry
 Received : 01 Dec 2023
 Diagnosed : 06 Dec 2023
 Diagnostician : Wes Davis
 PO Box 160, 176 Victoria Beach Road
 Colborne, ON
 CA K0K 1S0
 Contact: Sefton Grell
 sefton.grell@ca.crh.com
 T: (905)355-2534
 F: (905)355-2667

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