

PROBLEM SUMMARY

Sample Rating Trend

DIRT



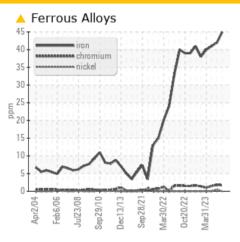


CATERPILLAR 12G 8318 (S/N 61M12623)

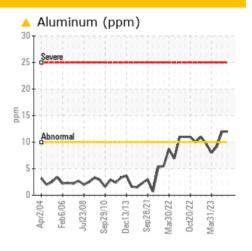
Hydraulic System

PETRO CANADA DURATRAN XL SYN BLEND (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC 1	TEST RE	ESULTS				
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>20	45	<u>42</u>	<u>4</u> 1
Aluminum	ppm	ASTM D5185m	>10	<u> </u>	<u>12</u>	9
Silicon	mag	ASTM D5185m	>20	^ 22	<u>^</u> 20	<u>^</u> 21

Customer Id: TRANEW Sample No.: WC0816341 Lab Number: 05905244 Test Package: CONST



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
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

30 May 2023 Diag: Don Baldridge



We advise that you check all areas where dirt can enter the system. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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.



25 Apr 2023 Diag: Jonathan Hester



We advise that you check all areas where dirt can enter the system. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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.



31 Mar 2023 Diag: Don Baldridge



We advise that you check all areas where dirt can enter the system. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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.





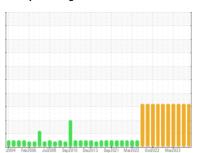
OIL ANALYSIS REPORT



CATERPILLAR 12G 8318 (S/N 61M12623)

Hydraulic System

PETRO CANADA DURATRAN XL SYN BLEND (--- GAL)



Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

The iron level is abnormal. All other component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The amount and size of particulates present in the system are acceptable.

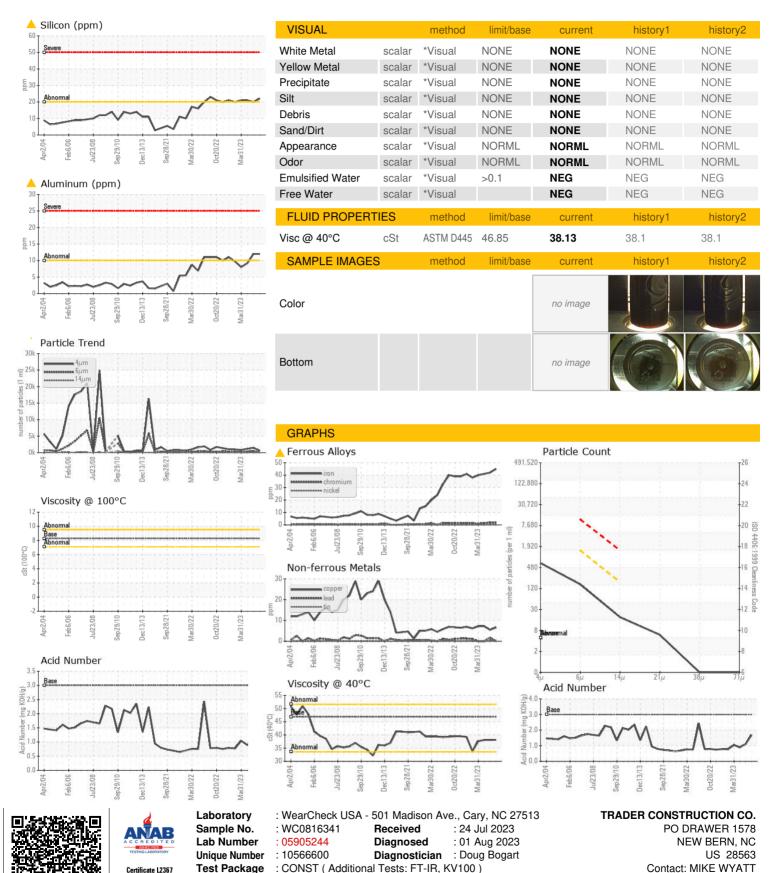
Fluid Condition

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

N XL SYN BLEND (GAL)	r2004 Feb200	6 Jul2008 Sep2010 Dec.	2013 Sep 2021 Mar 2022 Oct 2022	Mar2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0816341	WC0755204	WC0797690
Sample Date		Client Info		17 Jul 2023	30 May 2023	25 Apr 2023
Machine Age	hrs	Client Info		11311	10918	10347
Oil Age	hrs	Client Info		11311	10918	10347
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	45	▲ 42	4 1
Chromium	ppm	ASTM D5185m	>10	2	2	2
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<u> </u>	<u>▲</u> 12	4 9
Lead	ppm	ASTM D5185m		0	2	0
Copper	ppm	ASTM D5185m	>75	7	6	7
Tin	ppm	ASTM D5185m	>10	<1	<1	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	112	38	33	30
Barium	ppm	ASTM D5185m	1	<1	0	0
Molybdenum	ppm	ASTM D5185m	1	3	2	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	10	25	25	25
Calcium	ppm	ASTM D5185m	3500	1730	1602	1513
Phosphorus	ppm	ASTM D5185m	1200	922	900	843
Zinc	ppm	ASTM D5185m	1400	1158	1172	1068
Sulfur	ppm	ASTM D5185m	2370	3551	3132	3313
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<u>^</u> 22	<u>^</u> 20	<u>^</u> 21
Sodium	ppm	ASTM D5185m		20	18	19
Potassium	ppm	ASTM D5185m	>20	1	3	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		566	1451	1153
Particles >6µm		ASTM D7647	>1300	139	452	305
Particles >14µm		ASTM D7647	>160	16	27	23
Particles >21µm		ASTM D7647		5	4	7
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/14	16/14/11	18/16/12	17/15/12
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	3.0	1.68	1.11	0.89



OIL ANALYSIS REPORT



To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Certificate L2367

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