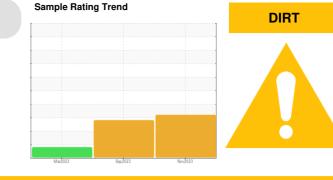


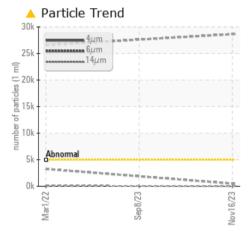
PROBLEM SUMMARY

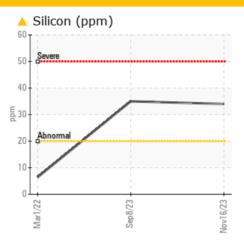


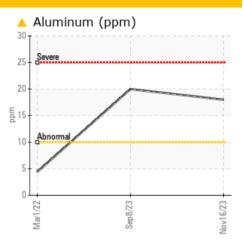
Machine Id **CATERPILLAR D6 8186 (S/N JJ601001)** Component Hydraulic System

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

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 TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
Aluminum	ppm	ASTM D5185m	>10	<u> </u>	<u> </u>	4		
Silicon	ppm	ASTM D5185m	>20	A 34	A 35	6		
Particles >4µm		ASTM D7647	>5000	<u> </u>		<u> </u>		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 22/16/12		🔺 22/19/14		

Customer Id: TRANEW Sample No.: WC0863008 Lab Number: 06012325 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

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

RECOMMENDED AC	CTIONS			
Action	Status	Date	Done By	Description
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

08 Sep 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. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



01 Mar 2022 Diag: Don Baldridge



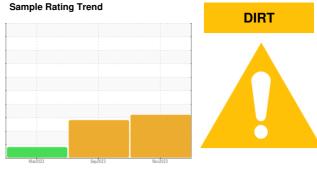
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report



OIL ANALYSIS REPORT



Machine Ic CATERPILLAR D6 8186 (S/N JJ601001) Component

Hydraulic System

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

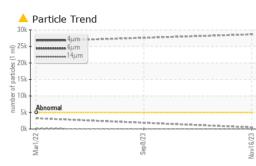
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0863008	WC0837011	WC0674205
le advise that you check all areas where dirt can	Sample Date		Client Info		16 Nov 2023	08 Sep 2023	01 Mar 2022
ter the system. The filter change at the time of	Machine Age	hrs	Client Info		4000	3472	510
Impling has been noted. Resample at the next ervice interval to monitor.	Oil Age	hrs	Client Info		4000	3472	510
	Oil Changed		Client Info		Not Changd	Not Changd	Not Change
Wear	Sample Status				ABNORMAL	ABNORMAL	ABNORMA
l component wear rates are normal.	CONTAMINATIO	N	method	limit/base	current	history1	history
Contamination here is a high amount of silt (particulates < 14	Water		WC Method	>0.1	NEG	NEG	NEG
icrons in size) present in the oil. Elemental levels silicon (Si) and aluminum (Al) indicate alumina-	WEAR METALS		method	limit/base	current	history1	history
icate (coarse dirt) ingress.	Iron	ppm	ASTM D5185m	>20	25	16	4
uid Condition	Chromium	ppm	ASTM D5185m	>10	2	2	0
ne AN level is acceptable for this fluid. The	Nickel	ppm	ASTM D5185m		0	<1	0
ndition of the oil is acceptable for the time in	Titanium	ppm	ASTM D5185m		<1	<1	0
prvice.	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m	>10	<u> </u>	<u> </u>	4
	Lead	ppm	ASTM D5185m		2	2	0
	Copper	ppm	ASTM D5185m		17	12	8
	Tin	ppm	ASTM D5185m		<1	<1	0
	Antimony	ppm	ASTM D5185m				0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history
	Boron	ppm	ASTM D5185m	112	8	0	0
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	1	<1	<1	0
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm		10	0	12	0
	Calcium	ppm	ASTM D5185m		738	461	198
	Phosphorus	ppm	ASTM D5185m	1200	709	746	779
	Zinc	ppm		1400	878	965	882
	Sulfur	ppm	ASTM D5185m		2064	2214	1456
	CONTAMINANT	S	method	limit/base	current	history1	history
	Silicon	ppm	ASTM D5185m	>20	4 34	3 5	6
	Sodium	ppm	ASTM D5185m		13	7	0
	Potassium	ppm	ASTM D5185m	>20	1	<1	0
	FLUID CLEANLI	NESS	method	limit/base	current	history1	history
	Particles >4µm		ASTM D7647	>5000	<u> </u>		▲ 26585
	Faillicies >4µm			>1300	500		▲ 3248
	Particles >6µm		ASTM D7647	21000			
			ASTM D7647 ASTM D7647		21		99
	Particles >6µm			>160			
	Particles >6μm Particles >14μm		ASTM D7647	>160 >40	21		99
	Particles >6µm Particles >14µm Particles >21µm		ASTM D7647 ASTM D7647	>160 >40 >10	21 6		99 25

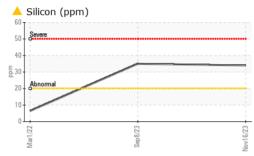


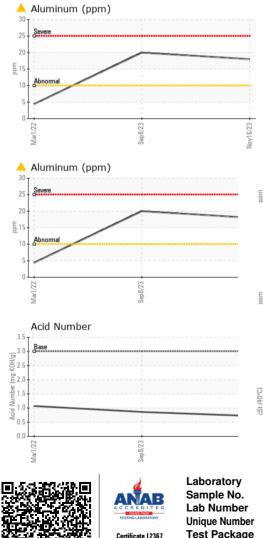
OIL ANALYSIS REPORT

Color

Bottom

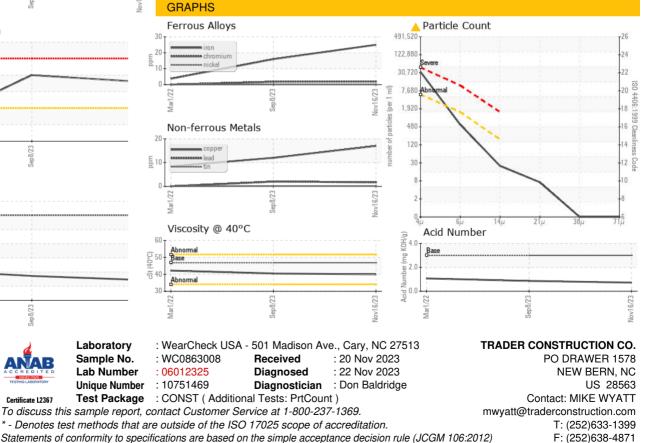






FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	3.0	0.72	0.86	1.07
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	🔺 MODER	LIGHT
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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.85	40.0	40.5	42.2
SAMPLE IMAGES		method	limit/base	current	history1	history2





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