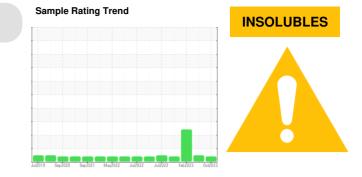


PROBLEM SUMMARY



Machine Id **P2-OHIO (S/N 2011019501)** Component

Hydraulic System

PETRO CANADA PURITY FG HYDRAULIC AW 68 (800 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. The oil filtration at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC T	EST RE	SULTS				
Sample Status				MARGINAL	NORMAL	MARGINAL
MPC Varnish Potential	Scale	ASTM D7843	>15	<u> </u>	7	<u> </u>

Customer Id: IMLCAN Sample No.: WC0699219 Lab Number: 05997956 Test Package: AOM 1



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

26 May 2023 Diag: Doug Bogart

NORMAL

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. MPC (Membrane Patch Colorimetry) test indicates acceptable levels of varnish present. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. Linear Sweep Voltammetry (RULER - ASTM D6971) testing indicates normal levels of anti-oxidants present in the oil. The condition of the oil is suitable for further service.

06 Feb 2023 Diag: Doug Bogart



No corrective action is recommended at this time. The filter service at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. MPC (Membrane Patch Colorimetry) test indicates a moderate concentration of varnish present. The amount and size of particulates present in the system are acceptable. Linear Sweep Voltammetry (RULER-ASTM D6971) testing indicates a low amount of one of the anti-oxidants present in the oil, however, the other anti-oxidant(s) are still performing adequately. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report





30 Jan 2023 Diag: Doug Bogart

No corrective action is recommended at this time. The filter service at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. MPC (Membrane Patch Colorimetry) test indicates a moderate concentration of varnish present. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. Linear Sweep Voltammetry (RULER - ASTM D6971) testing indicates normal levels of anti-oxidants present in the oil. The condition of the oil is suitable for further service.

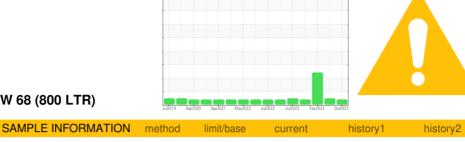


OIL ANALYSIS REPORT

Machine Id **P2-OHIO (S/N 2011019501)**

Hydraulic System

PETRO CANADA PURITY FG HYDRAULIC AW 68 (800 LTR)



INSOLUBLES

Sample Rating Trend

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The oil filtration at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

MPC (Membrane Patch Colorimetry) test indicates a light concentration of varnish present. The amount and size of particulates present in the system are acceptable.

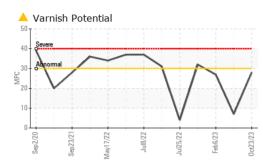
Fluid Condition

Linear Sweep Voltammetry (RULER – ASTM D6971) testing indicates normal levels of antioxidants present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

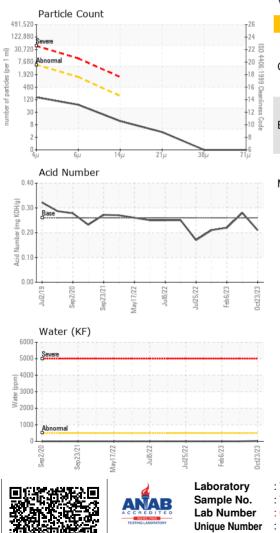
Comula Number		Olianet Info		W00000010	WCOCOOOLC	WC0000010
Sample Number		Client Info Client Info		WC0699219 23 Oct 2023	WC0699216	WC0699212 06 Feb 2023
Sample Date Machine Age	hrs	Client Info		23 OCI 2023 1670	26 May 2023 0	00 FED 2023
Oil Age	hrs	Client Info		1670	370	5200
Oil Changed	1115	Client Info		Filtered	Changed	Filtered
Sample Status		Chefit IIIO		MARGINAL	NORMAL	MARGINAL
Sample Status				WARGINAL	NORIVIAL	MANGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	<1	0	0
Copper	ppm	ASTM D5185m	>20	0	0	0
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	<1	<1
Calcium	ppm	ASTM D5185m		1	<1	1
Phosphorus	ppm	ASTM D5185m		433	504	439
Zinc	ppm	ASTM D5185m		2	0	2
Sulfur	ppm	ASTM D5185m		541	691	662
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	2	2
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water	%	ASTM D6304	>0.05	0.002	0.001	
ppm Water	ppm	ASTM D6304	>500	17.0	0.00	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	138	77	115
Particles >6µm		ASTM D7647	>1300	61	36	35
Particles >14µm		ASTM D7647	>160	10	4	4
		ASTM D7647 ASTM D7647		10 3	4	4
Particles >14µm Particles >21µm						
Particles >14μm Particles >21μm Particles >38μm		ASTM D7647	>40 >10	3 0	1	1
Particles >14µm Particles >21µm		ASTM D7647 ASTM D7647	>40 >10	3	1 0	1 0



OIL ANALYSIS REPORT





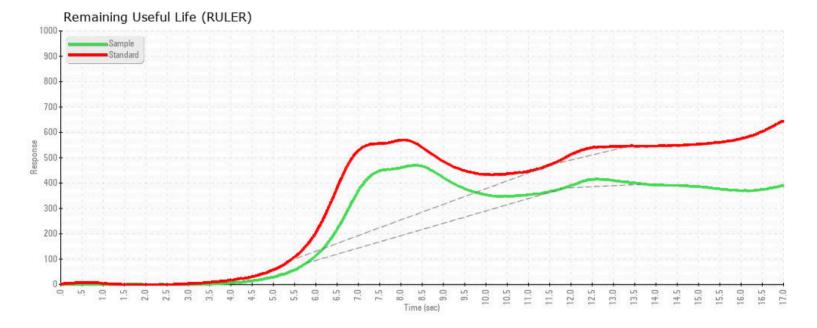


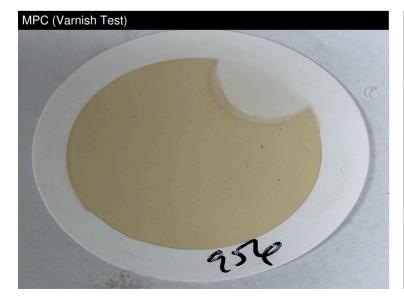
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.26	0.21	0.28	0.22
Anti-Oxidant 1	%	ASTM D6971	<25	81	95	87
Anti-Oxidant 2	%	ASTM D6971	<25	92	40	1 8
MPC Varnish Potential	Scale	ASTM D7843	>15	<u> </u>	7	<u> </u>
VISUAL		method	limit/base	current	history1	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	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTI	ES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	63.34	66.9	66.0	65.8
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						
MPC				\bigcirc		

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 **IML CONTAINERS OHIO** : WC0699219 Received : 03 Nov 2023 5365 EAST CENTER DRIVE NORTHEAST, Suite D : 05997956 Diagnosed : 14 Nov 2023 CANTON, OH : 10726316 Diagnostician : Doug Bogart US 44721 Test Package : AOM 1 (Additional Tests: KF) Contact: Juliana Nesello Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. sguiraldello@iml.com.br * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (330)754-1066

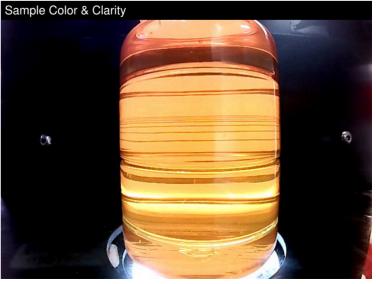
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F:





Report Id: IMLCAN [WUSCAR] 05997956 (Generated: 11/16/2023 03:12:23) Rev: 1



Contact/Location: Juliana Nesello - IMLCAN Page 5 of 6

This page left intentionally blank