

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id Component **Hydraulic System**

PETRO CANADA PURITY FG HYDRAULIC AW 68 (700 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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

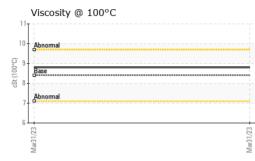
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0062075		
Sample Date		Client Info		31 Mar 2023		
Machine Age	hrs	Client Info		85486		
Oil Age	hrs	Client Info		85486		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	0		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>20	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>20	0		
Lead	ppm	ASTM D5185(m)	>20	0		
Copper	ppm	ASTM D5185(m)	>20	<1		
Tin	ppm	ASTM D5185(m)	>20	0		
Antimony	ppm	ASTM D5185(m)		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)		0		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		0		
Calcium	ppm	ASTM D5185(m)		<1		
Phosphorus	ppm	ASTM D5185(m)		436		
Zinc	ppm	ASTM D5185(m)		4		
Sulfur	ppm	ASTM D5185(m)		433		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1		
Sodium	ppm	ASTM D5185(m)		0		
Potassium	ppm	ASTM D5185(m)	>20	<1		
FLUID CLEANI	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	100		
Particles >6µm		ASTM D7647	>1300	46		
Particles >14µm		ASTM D7647	>160	8		
Particles >21µm		ASTM D7647	>40	2		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	14/13/10		
FLUID DEGRA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.26	0.14		
· /	- 0					

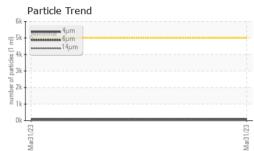
Report Id: IMLSTP [WCAMIS] 02569388 (Generated: 07/13/2023 08:34:34) Rev: 1

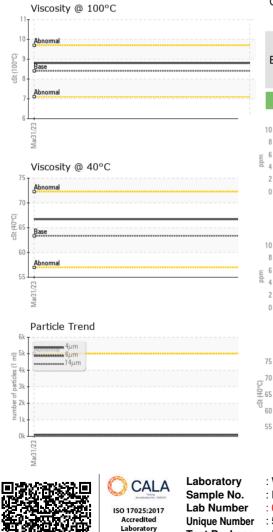
Contact/Location: Sebastien Brisson - IMLSTP



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N/I OLI I I						
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.05	NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	63.34	66.7		
Visc @ 100°C	cSt	ASTM D7279(m)	8.409	8.8		
Viscosity Index (VI)	Scale	ASTM D2270*	102	104		
SAMPLE IMAG	GES	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no imago	no image
Dottom				Kill	nonnage	no image
Ferrous Alloys			491,520			т2
8 - iron			122.880			-2
E 6 nickel				Severe		12
			30,720	F		-2
0			7,680	Abnormal		-2
31/23			31/23			
Mar			Mar les (pe			-2
	ls		otured 480			
8 copper			120		· · · · · · · · · · · · · · · · · · ·	-1
sessesses lead			5			
			30			
2			8	-		-1
0			EZ/ 2	-		-8
Mar31.			Var31			
≥ Viscosity @ 40°C			< 0	4μ 6μ	14µ 21µ	38µ 71µ
⁷⁵ Abnormal			€0.30	Acid Number		
			H 0.24	Base		
~ ^{/0} 1			٤ 0.18	-		
9 4 65 - Base			- e 0.12	+		
570 - Base 360 -				1		
Abnormal			N 0.06			
Abnormal 55			(0,0.30 (0,0.00 HOX (0,0.24 Gu) 0.24 Gu) 0.26 Gu) 0.26 Gu	Mar31/23		
	Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPE Visc @ 40°C Visc @ 100°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAC Color Bottom GRAPHS Ferrous Alloys Non-ferrous Meta	Precipitate scalar Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water scalar Free Water scalar FLUID PROPERTIES Visc @ 40°C cSt Visc @ 100°C cSt Viscosity Index (VI) Scale SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys Non-ferrous Metals	Precipitate scalar Visual* Silt scalar Visual* Debris scalar Visual* Sand/Dirt scalar Visual* Appearance scalar Visual* Odor scalar Visual* Emulsified Water scalar Visual* Free Water scalar Visual* FLUID PROPERTIES method Visc @ 40°C cSt ASTM D7279(m) Visc @ 100°C cSt ASTM D7279(m) Visc @ 100°C cSt ASTM D7279(m) Viscosity Index (VI) Scale ASTM D2270* SAMPLE IMAGES method Color Bottom GRAPHS Ferrous Alloys Von-ferrous Metals	Precipitate scalar Visual* NONE Silt scalar Visual* NONE Sand/Dirt scalar Visual* NONE Appearance scalar Visual* NORML Odor scalar Visual* NORML Emulsified Water scalar Visual* So.05 Free Water Scalar Visual* So.05 Visc @ 40°C cSt ASTM D2270* 102 SAMPLE IMAGES Method Imit/base Color GRAPHS Ferrous Alloys Von-ferrous Metals Mon-ferrous Metals Stade State St	Precipitate scalar Visual* NONE NONE Sitt scalar Visual* NONE NONE Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* O.05 NEG Free Water scalar Visual* O.05 NEG Visca@ 40°C cSt ASTM D7279(m) 63.34 66.7 Visc@ 100°C cSt ASTM D7279(m) 8.409 8.8 Viscosity Index (VI) Scale ASTM D2270* 102 104 SAMPLE IMAGES method limit/base current Color Bottom Difference Metals Of the sector of the	Precipitate scalar Visual* NONE NONE Sitt scalar Visual* NONE NONE Sand/Dirt scalar Visual* NONE NONE Sand/Dirt scalar Visual* NORML NORML Appearance scalar Visual* NORML NORML Emulsified Water scalar Visual* NORML NORML Free Water scalar Visual* NORML NORML Free Water scalar Visual* NORML NORML Free Water scalar Visual* NORML NORML Visc@ 40°C cSt ASTM D7279(m) 63.34 66.7 Visc@ 100°C cSt ASTM D7279(m) 8.409 8.8 Viscosity Index (VI) Scale ASTM D2270* 102 104 SAMPLE IMAGES method Imilibase current history1 Color no image Bottom Data Scalar Visual* no image 104 105 Ferrous Alloys Ferrous Metals 0 0 0 0 0 0 0 0 0 0 0 0 0

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.

sbrisson@iml.ca

T: (450)258-2262

F: (450)258-3345