



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
SUTPHEN 4035
Component
Hydraulic System
Fluid
PETRO CANADA ATF D3M (10 LTR)

RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0877848	WC0755045	WC0766741
Sample Date		Client Info		02 Jan 2024	30 Nov 2022	03 Nov 2022
Machine Age	hrs	Client Info		556	482	1160
Oil Age	hrs	Client Info		73	66	1160
Filter Age	hrs	Client Info		73	66	135
Oil Changed		Client Info		Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	<1	1	2
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	1	1	<1
Lead	ppm	ASTM D5185(m)	>10	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>75	16	14	7
Tin	ppm	ASTM D5185(m)	>10	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

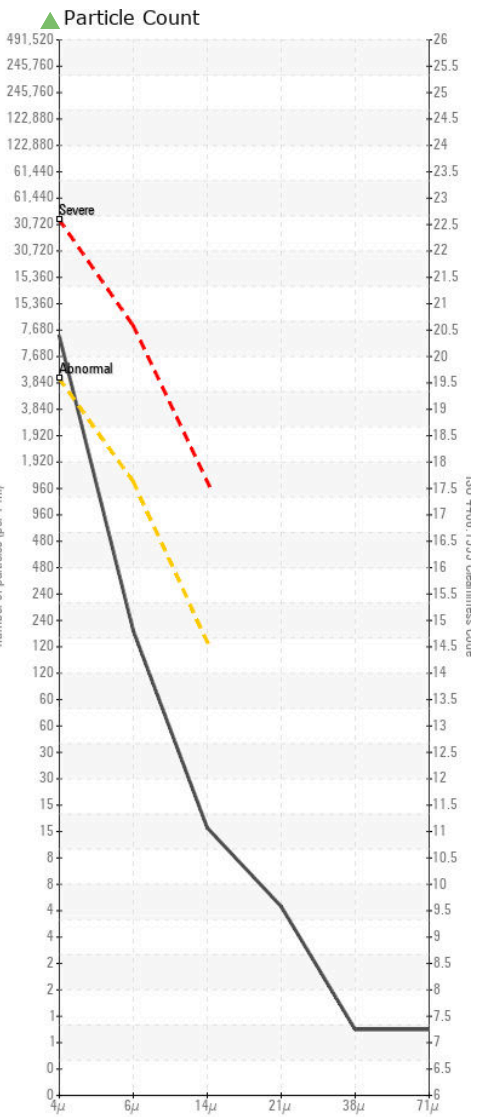
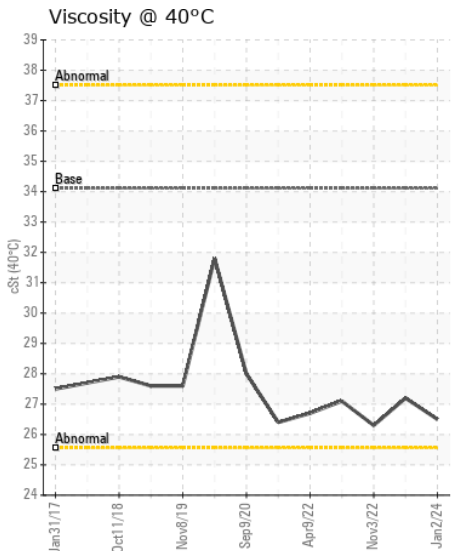
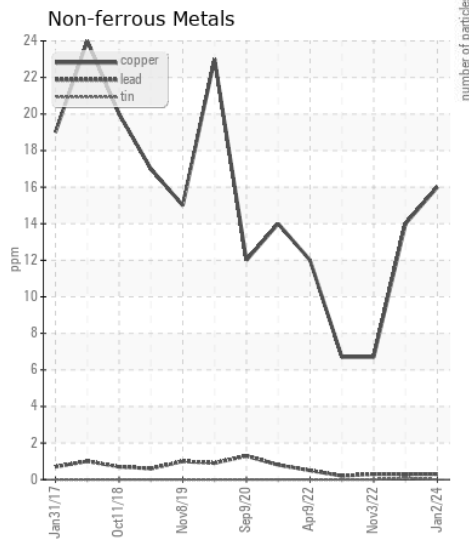
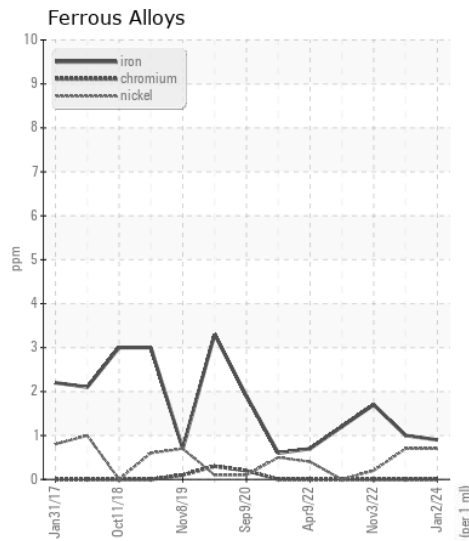
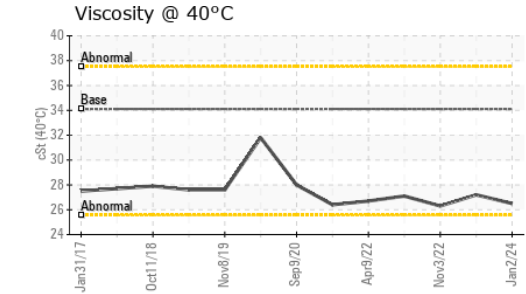
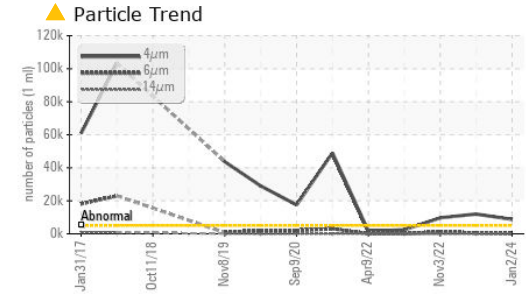
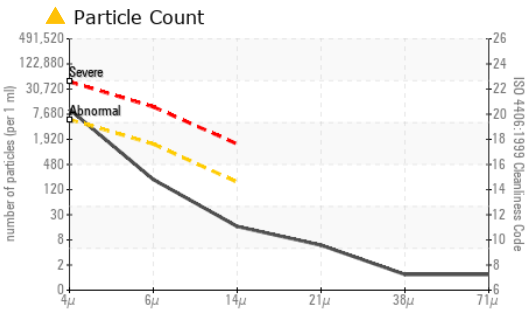
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>20	2	2	3
Potassium	ppm	ASTM D5185(m)	>20	2	1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 8737	▲ 11966	▲ 9679
Particles >6µm		ASTM D7647	>1300	185	505	1141
Particles >14µm		ASTM D7647	>160	14	31	14
Particles >21µm		ASTM D7647	>40	5	8	3
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 20/15/11	▲ 21/16/12	▲ 20/17/11
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*	>0.1	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		1	1	4
Boron	ppm	ASTM D5185(m)	98	95	102	102
Barium	ppm	ASTM D5185(m)	<0.00	0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	<1	2	1	2
Calcium	ppm	ASTM D5185(m)	70	73	67	103
Phosphorus	ppm	ASTM D5185(m)	220	267	296	310
Zinc	ppm	ASTM D5185(m)		53	49	42
Sulfur	ppm	ASTM D5185(m)	710	745	716	822
Visc @ 40°C	cSt	ASTM D7279(m)	34.11	26.5	27.2	26.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0877848 **Received** : 05 Jan 2024
Lab Number : 02606802 **Diagnosed** : 08 Jan 2024
Unique Number : 5707888 **Diagnostician** : Wes Davis
Test Package : MOB 2

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.

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