



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Barge Davit

Machine Id

G5-83211 Barge Davit Winch Gearbox (Aft Arm)

Component

Gearbox

Fluid

PETRO CANADA ENDURATEX EP 68 (20 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0855471	WC0772109	WC0603777
Sample Date		Client Info		02 Jan 2024	03 Jul 2023	31 Dec 2022
Machine Age	mths	Client Info		0	253	0
Oil Age	mths	Client Info		0	46	0
Filter Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>150	7	7	6
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>5	<1	0	0
Lead	ppm	ASTM D5185(m)	>65	1	<1	1
Copper	ppm	ASTM D5185(m)	>80	18	18	17
Tin	ppm	ASTM D5185(m)	>8	1	1	1
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

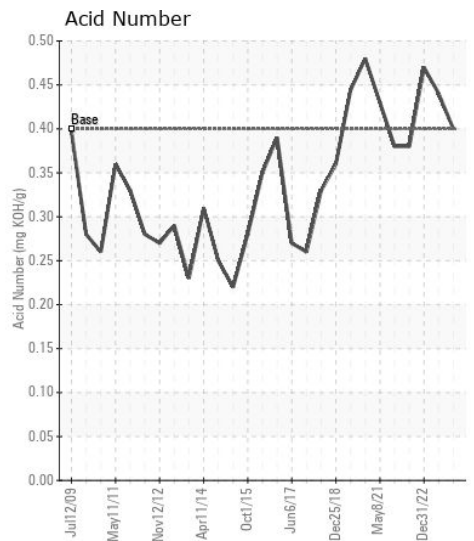
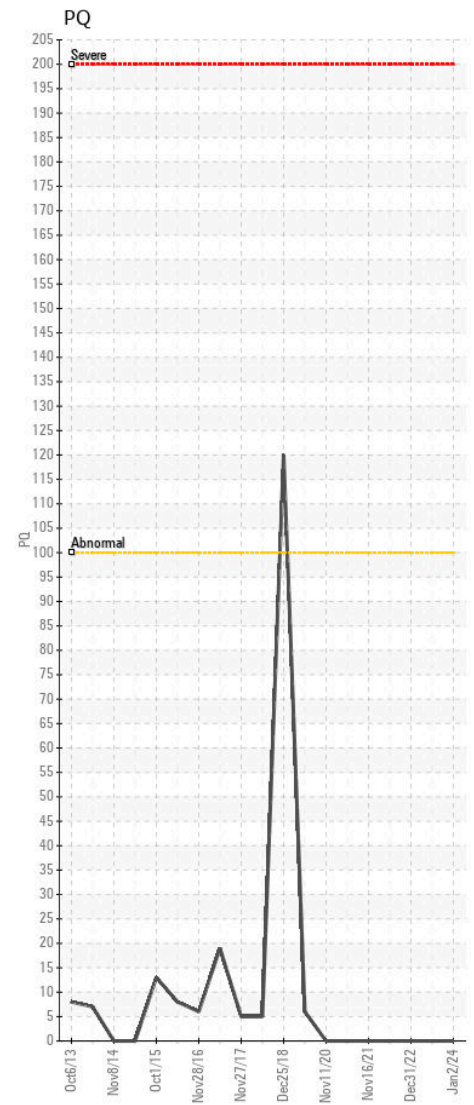
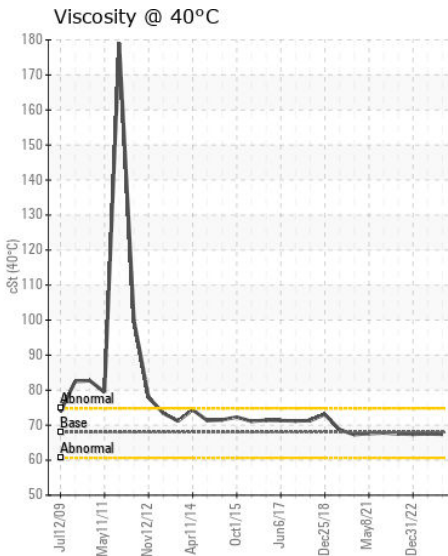
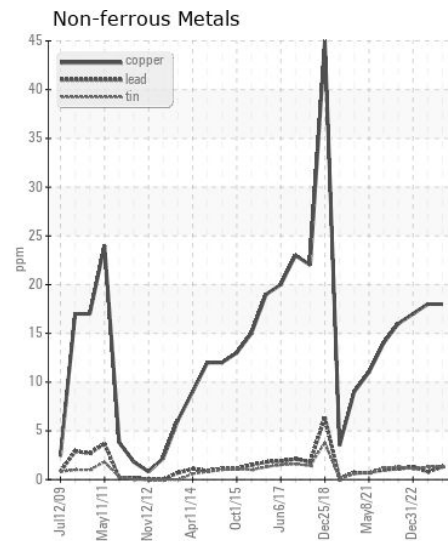
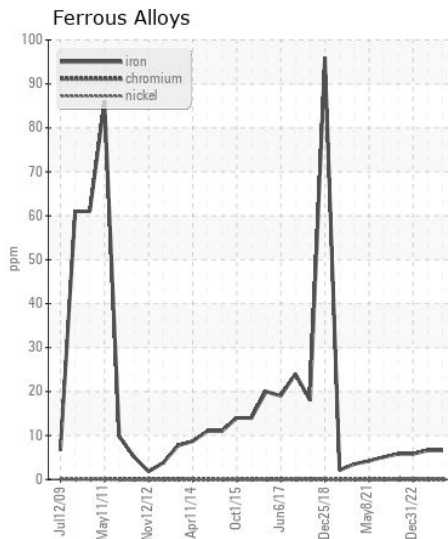
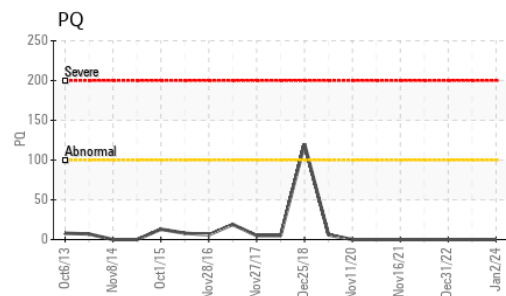
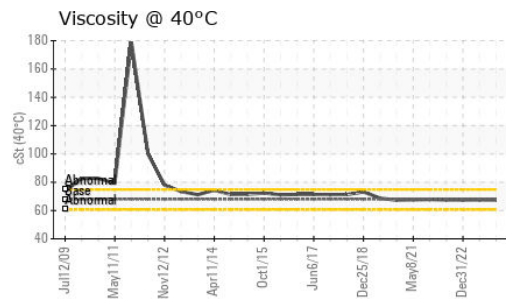
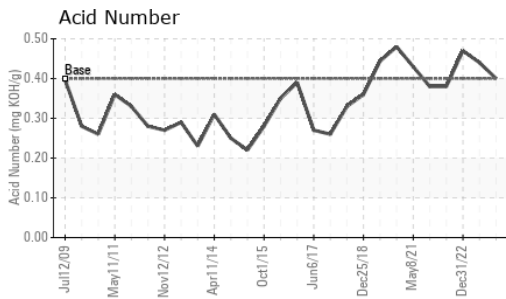
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	6	6	6
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Water		WC Method	>0.2	NEG	NEG	NEG
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*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		0	<1	0
Boron	ppm	ASTM D5185(m)	69	60	61	64
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	1	0	0	0
Manganese	ppm	ASTM D5185(m)	1	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1	<1	1	<1
Calcium	ppm	ASTM D5185(m)	1	1	2	0
Phosphorus	ppm	ASTM D5185(m)	246	281	301	315
Zinc	ppm	ASTM D5185(m)	1	3	4	4
Sulfur	ppm	ASTM D5185(m)	3670	5058	4842	4956
Acid Number (AN)	mg KOH/g	ASTM D974*	0.4	0.40	0.44	0.47
Visc @ 40°C	cSt	ASTM D7279(m)	68.0	67.4	67.5	67.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0855471
Lab Number : 02607280
Unique Number : 5708366
Test Package : MAR 2

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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.