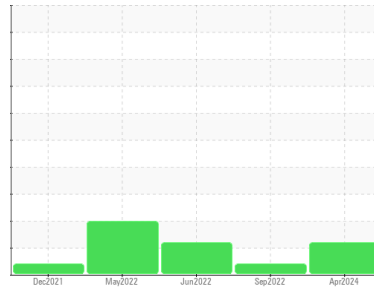




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

COLD MILL/CM-3STD-2N

Machine Id

PAYOFF OP SIDE GEARBOX 1536-001-1165

Component

Gearbox

Fluid

PETRO CANADA ENDURATEX SYNTHETIC EP 320 (100 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KFS0004400	KFS0001949	KFS0001754
Sample Date	Client Info		08 Apr 2024	22 Sep 2022	23 Jun 2022
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	0	0
Chromium	ppm	ASTM D5185m	>15	0	0
Nickel	ppm	ASTM D5185m	>15	0	0
Titanium	ppm	ASTM D5185m		0	0
Silver	ppm	ASTM D5185m		0	4
Aluminum	ppm	ASTM D5185m	>25	0	<1
Lead	ppm	ASTM D5185m	>100	0	0
Copper	ppm	ASTM D5185m	>200	0	<1
Tin	ppm	ASTM D5185m	>25	<1	0
Vanadium	ppm	ASTM D5185m		<1	0
Cadmium	ppm	ASTM D5185m		0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	33	13	73
Barium	ppm	ASTM D5185m	5	0	0
Molybdenum	ppm	ASTM D5185m		<1	0
Manganese	ppm	ASTM D5185m		0	<1
Magnesium	ppm	ASTM D5185m	5	<1	0
Calcium	ppm	ASTM D5185m	5	2	0
Phosphorus	ppm	ASTM D5185m	437	162	276
Zinc	ppm	ASTM D5185m	5	2	0
Sulfur	ppm	ASTM D5185m	5000	8696	7540

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	6	9
Sodium	ppm	ASTM D5185m		0	0
Potassium	ppm	ASTM D5185m	>20	0	0

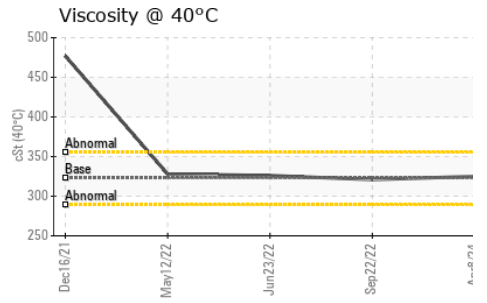
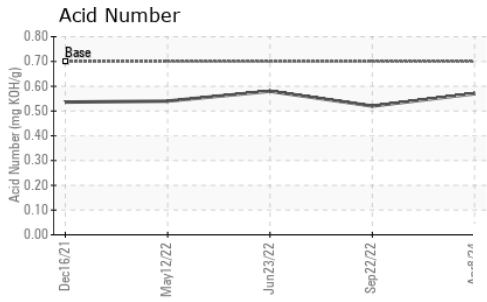
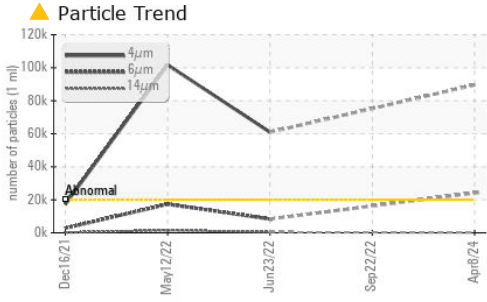
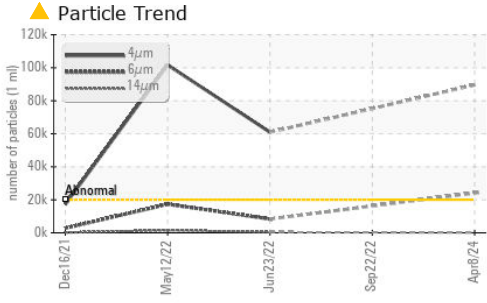
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 89607	---	▲ 60953
Particles >6µm	ASTM D7647	>5000	▲ 24203	---	● 8358
Particles >14µm	ASTM D7647	>640	112	---	388
Particles >21µm	ASTM D7647	>160	9	---	12
Particles >38µm	ASTM D7647	>40	0	---	0
Particles >71µm	ASTM D7647	>10	0	---	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 24/22/14	---	▲ 23/20/16

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.7	0.57	0.52

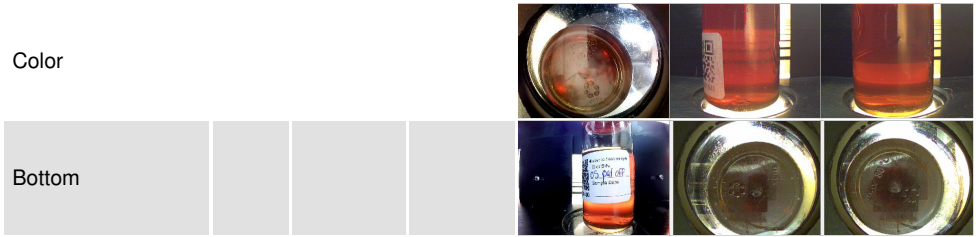
OIL ANALYSIS REPORT



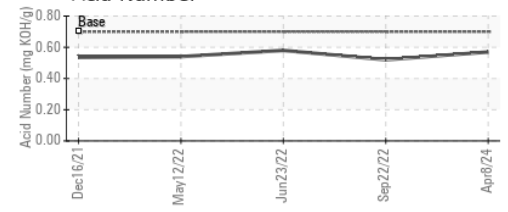
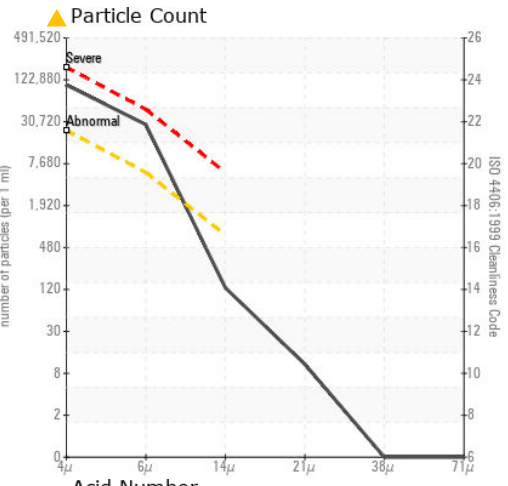
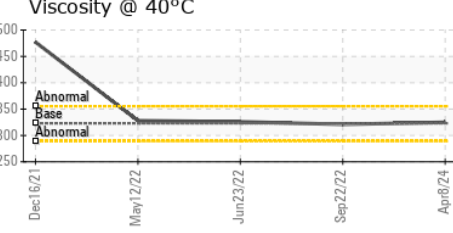
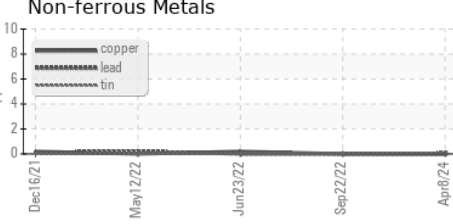
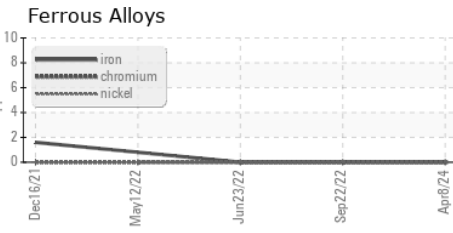
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	323	325	321

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KFS0004400 **Received** : 09 Apr 2024
Lab Number : **06143017** **Tested** : 10 Apr 2024
Unique Number : 10967825 **Diagnosed** : 11 Apr 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: PrtCount)

CONSTELLIUM
 4805 SECOND STREET
 MUSCLE SHOALS, AL
 US 35661
 Contact: Randy Nichols
 randall.nichols@constellium.com
 T: (256)386-6956
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)