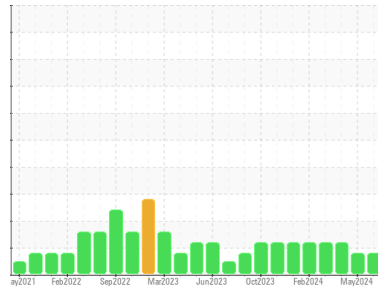




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

## COLD MILL/CM-3STD-1S

Machine Id

## SOUTH 3-STAND PAYOFF DS GB 1526-007-1165

Component

### Gearbox

Fluid

### PETRO CANADA ENDURATEX EP 320 (100 GAL)

#### DIAGNOSIS

##### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

##### Wear

All component wear rates are normal.

##### Contamination

There is a moderate amount of silt (particulates < 6 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			<b>KFS0004439</b>	KFS0004436	KFS0004474
Sample Date	Client Info			<b>31 May 2024</b>	13 May 2024	03 Apr 2024
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>ATTENTION</b>	ATTENTION	ABNORMAL

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

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

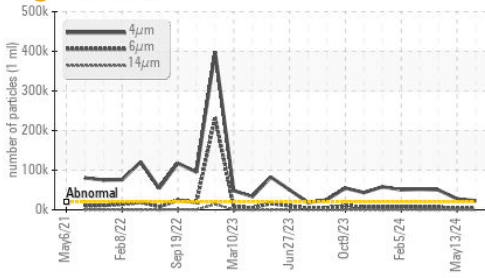
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	55	<b>21</b>	20	18
Barium	ppm	ASTM D5185m	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	0	<b>0</b>	2	0
Calcium	ppm	ASTM D5185m	0	<b>2</b>	2	1
Phosphorus	ppm	ASTM D5185m	240	<b>191</b>	178	154
Zinc	ppm	ASTM D5185m	1	<b>&lt;1</b>	0	0
Sulfur	ppm	ASTM D5185m	13700	<b>8110</b>	8676	7765

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>8</b>	8	9
Sodium	ppm	ASTM D5185m		<b>0</b>	<1	0
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	0

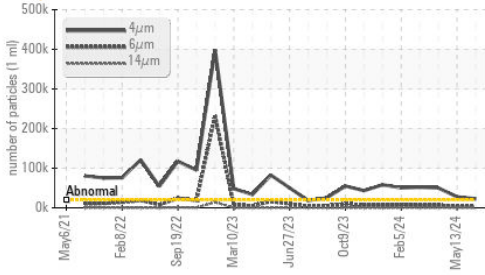
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>22739</b>	27738	50011
Particles >6µm		ASTM D7647	>5000	<b>3737</b>	2995	7173
Particles >14µm		ASTM D7647	>640	<b>123</b>	65	185
Particles >21µm		ASTM D7647	>160	<b>27</b>	10	28
Particles >38µm		ASTM D7647	>40	<b>5</b>	0	1
Particles >71µm		ASTM D7647	>10	<b>4</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>22/19/14</b>	22/19/13	23/20/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.53</b>	0.56	0.56

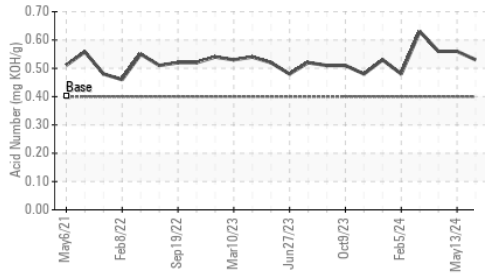
### Particle Trend



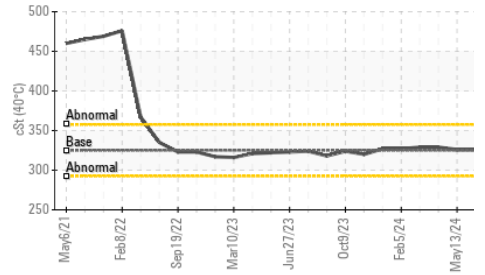
### Particle Trend



### Acid Number



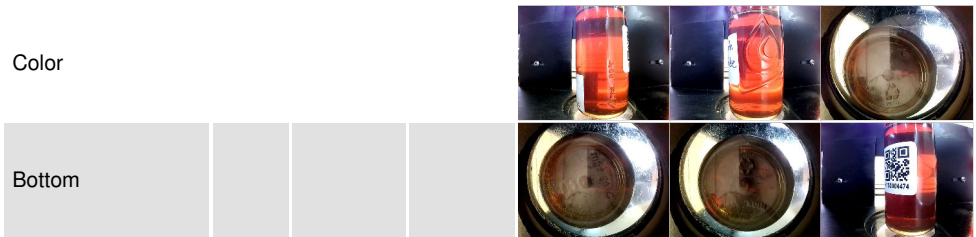
### Viscosity @ 40°C



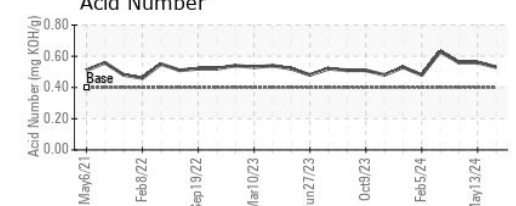
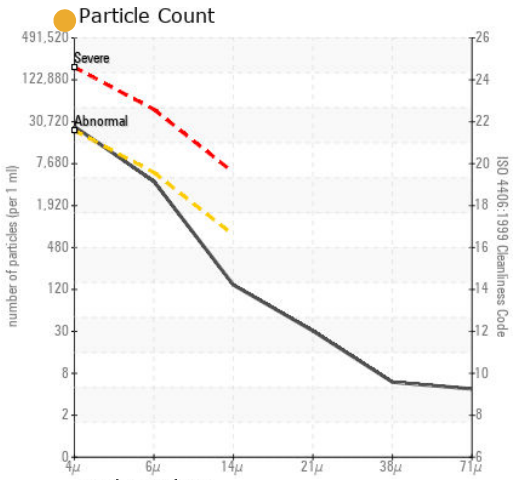
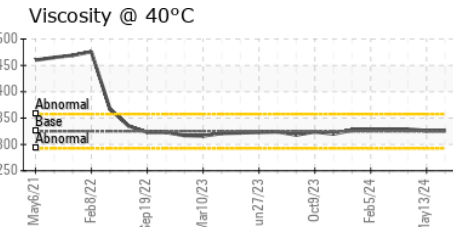
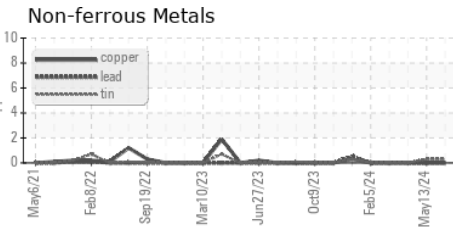
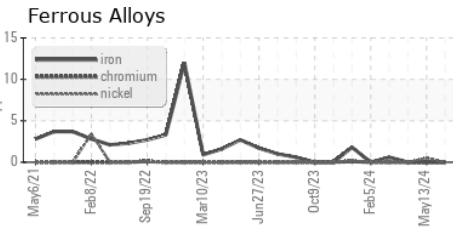
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	325	326	329

SAMPLE IMAGES	method	limit/base	current	history1	history2
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### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KFS0004439 **Received** : 05 Jun 2024  
**Lab Number** : 06200113 **Tested** : 07 Jun 2024  
**Unique Number** : 11062236 **Diagnosed** : 07 Jun 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**CONSTELLIUM**  
 4805 SECOND STREET  
 MUSCLE SHOALS, AL  
 US 35661  
 Contact: Josh Edwards  
 joshua.edwards@constellium.com

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)

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F: