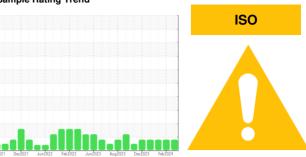


OIL ANALYSIS REPORT

Sample Rating Trend



Area

COLD MILL/CM-3STD-1S SOUTH 3-STAND PAYOFF OP GB 1526-007-1265

Gearbox

Gearbo

PETRO CANADA ENDURATEX EP 320 (100 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

GAL)						
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004473	KFS0004846	KFS0004666
Sample Date		Client Info		03 Apr 2024	29 Feb 2024	05 Feb 2024
Machine Age	hrs	Client Info		0	0	0
•	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ATTENTION
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	<1	0
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	2	2
Tin	ppm	ASTM D5185m	>25	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	55	19	19	25
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	0	0	0
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	0	<1	0	0
Phosphorus	ppm	ASTM D5185m	240	165	168	160
Zinc	ppm	ASTM D5185m	1	0	0	0
Sulfur	ppm	ASTM D5185m	13700	7678	6961	7225
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	9	8	6
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000	49598	32602	34133
Particles >6µm		ASTM D7647	>5000	3727	2175	3457
Particles >14μm		ASTM D7647	>640	97	46	65
Particles >21µm		ASTM D7647	>160	12	9	13
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71μm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>23/19/14</u>	22/18/13	22/19/13
FLUID DEGRADAT	ION	method	limit/base	current	history1	history2

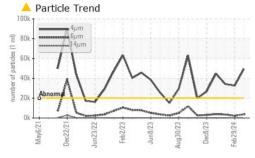
Acid Number (AN)

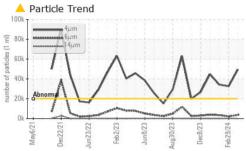
mg KOH/g ASTM D8045 0.4

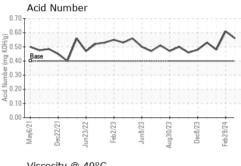
0.56 0.61 0.48
Submitted By: COLD MILL - Josh Edwards

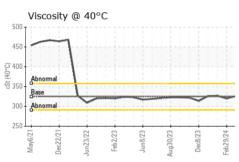


OIL ANALYSIS REPORT





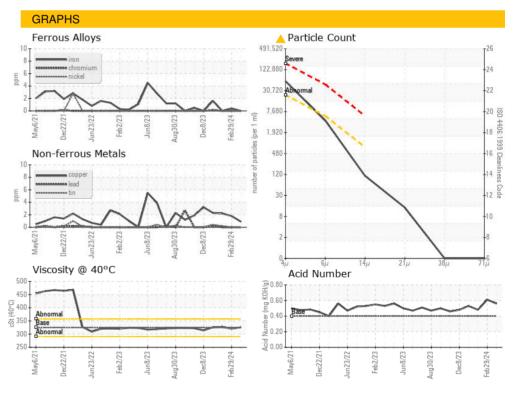




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	325	326	320	327

SAMI LE IMAGES	method	IIIIII/Dase	Current	HISTOLAL	Historyz
Color			() () () () () () () () () ()		









Certificate 12367

Laboratory

Sample No. Lab Number : 06144180 Unique Number : 10968988

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KFS0004473

Received **Tested** Diagnosed

: 10 Apr 2024 : 11 Apr 2024

: 11 Apr 2024 - Wes Davis

US 35661 Contact: Randy Nichols randall.nichols@constellium.com T: (256)386-6956

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.

Test Package : IND 2 (Additional Tests: PrtCount)

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

CONSTELLIUM

4805 SECOND STREET

MUSCLE SHOALS, AL