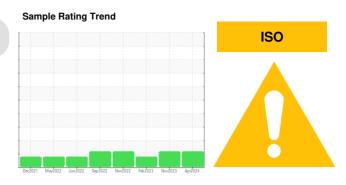


# **OIL ANALYSIS REPORT**

# **COLD MILL/CM-3STD-2N PINION LUBE 1536-001-0950**

Gearbox

PETRO CANADA ENDURATEX EP 460 (5000 GAL)



### **DIAGNOSIS**

### Recommendation

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

All component wear rates are normal.

## Contamination

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

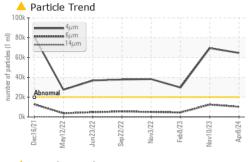
### **Fluid Condition**

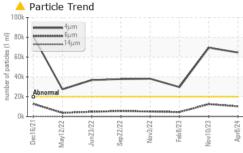
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

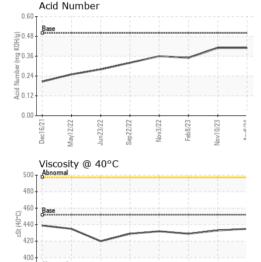
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004402	KFS0004867	KFS0002534
Sample Date		Client Info		08 Apr 2024	10 Nov 2023	08 Feb 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
CONTAMINATION	V	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	4	2	1
Chromium	ppm	ASTM D5185m		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	<1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	0	0	<1
Tin		ASTM D5185m	>25	<1	0	<1
Vanadium	ppm	ASTM D5185m	725	<1	0	0
Cadmium		ASTM D5185m		0	0	<1
	ppm		1111-/1			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	55	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	2	0	0	0
Calcium	ppm	ASTM D5185m	6	2	<1	<1
Phosphorus	ppm	ASTM D5185m	240	120	125	113
Zinc	ppm	ASTM D5185m	3	0	2	1
Sulfur	ppm	ASTM D5185m	10310	5847	4746	5765
CONTAMINANTS	i	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		<1	<1	<1
Sodium	ppm	ASTM D5185m		<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>△</b> 64658	<b>△</b> 69452	29721
Particles >6µm		ASTM D7647	>5000	<u> </u>	<u>12517</u>	4531
Particles >14µm		ASTM D7647	>640	179	182	76
Particles >21µm		ASTM D7647	>160	30	20	10
Particles >38µm		ASTM D7647	>40	1	0	0
Particles >71μm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>23/21/15</b>	<u>\$\text{\Delta}\$ 23/21/15</u>	22/19/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
- LOID BEGINADA	TION	THETHOU	III III Dase	Carrent	HISTORY	riistoryz



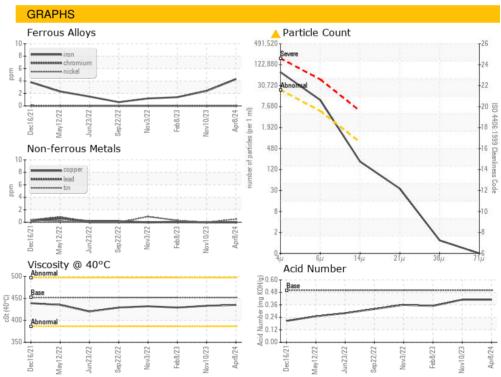
## **OIL ANALYSIS REPORT**







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
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	452	435	433	429
SAMPLE IMAGES method		limit/base	current	history1	history2	
Color						







Certificate 12367

Laboratory Sample No.

: KFS0004402 Lab Number : 06143018 Unique Number : 10967826

**Bottom** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

: 10 Apr 2024 Diagnosed Test Package : IND 2 ( Additional Tests: PrtCount )

: 09 Apr 2024

: 10 Apr 2024 - Wes Davis

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

\* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

**CONSTELLIUM** 4805 SECOND STREET

MUSCLE SHOALS, AL