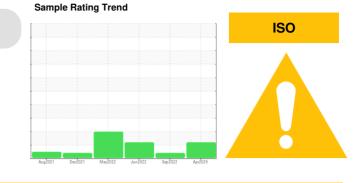


OIL ANALYSIS REPORT

Area COLD MILL/CM-3STD-2N PAYOFF DR SIDE GEARBOX 1536-001-1265

Component Gearbox

Fluid PETRO CANADA ENDURATEX SYNTHETIC EP 320 (100 GAL)



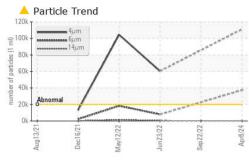
DIAGNOSIS	SAMPLE INFOR		method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		KFS0004399	KFS0001950	KFS0001757
We recommend you service the filters on this	Sample Date		Client Info		08 Apr 2024	22 Sep 2022	23 Jun 2022
component if applicable. Resample at the next	Machine Age	hrs	Client Info		0	0	0
service interval to monitor.	Oil Age	hrs	Client Info		0	0	0
Wear	Oil Changed		Client Info		N/A	N/A	N/A
All component wear rates are normal.	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Contamination	CONTAMINATIC	ON	method	limit/base	current	history1	history2
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water		WC Method		NEG	NEG	NEG
luid Condition he AN level is acceptable for this fluid. The	WEAR METALS		method	limit/base	current	history1	history2
ondition of the oil is suitable for further service.	Iron	ppm	ASTM D5185m	>200	0	0	0
	Chromium	ppm	ASTM D5185m		0	0	0
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	<1	2
	Aluminum	ppm	ASTM D5185m	>25	0	<1	0
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		0	0	0
	Tin	ppm	ASTM D5185m		<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	Cadmium	ppm	ASTM D5185m		0	<1	<1
	ADDITIVES	PT I-	method	limit/base		history1	history2
	Boron	ppm	ASTM D5185m		8	76	69
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	0	0	0	0
	Manganese		ASTM D5185m		0	<1	<1
	•	ppm	ASTM D5185m	5	0	0	<1
	Magnesium	ppm					
	Calcium	ppm	ASTM D5185m		3	0	0
	Phosphorus	ppm	ASTM D5185m		149	289	212
	Zinc	ppm	ASTM D5185m		0	7	2
	Sulfur	ppm	ASTM D5185m	5000	8455	7961	5053
	CONTAMINANTS	S	method	limit/base		history1	history2
	Silicon	ppm	ASTM D5185m	>50	7	9	6
	Sodium	ppm	ASTM D5185m		<1	0	0
	Potassium	ppm	ASTM D5185m		0	0	0
	FLUID CLEANLI	NESS	method	limit/base		history1	history2
	Particles >4µm		ASTM D7647		111017		60401
	Particles >6µm		ASTM D7647		<u> </u>		▲ 8004
	Particles >14µm		ASTM D7647		190		374
	Particles >21µm		ASTM D7647	>160	13		10
	Particles >38µm		ASTM D7647	>40	0		1
	Particles >71µm		ASTM D7647	>10	0		0
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 24/22/15		▲ 23/20/16
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.7	0.52	0.51	0.55
		3			0		

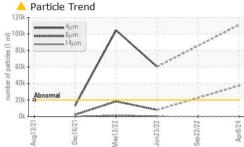
Report Id: CONMUSAL [WUSCAR] 06143019 (Generated: 04/11/2024 16:11:24) Rev: 1

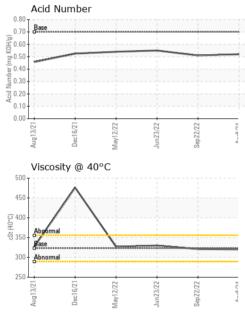
0.52 0.51 0.55 Submitted By: COLD MILL - Josh Edwards Page 1 of 2



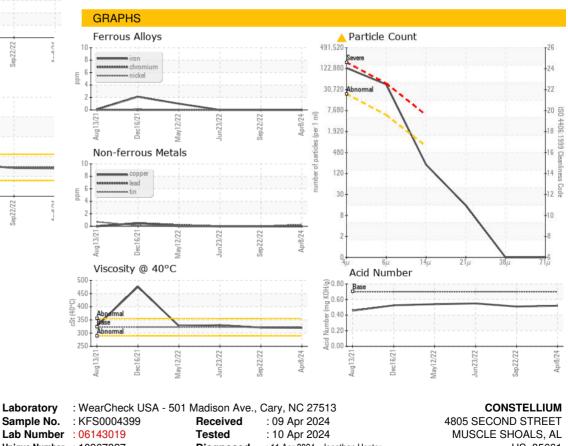
OIL ANALYSIS REPORT







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	🔺 MODER	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	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	323	320	321	330
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						
Bottom						





Unique Number : 10967827 Diagnosed : 11 Apr 2024 - Jonathan Hester Test Package : IND 2 (Additional Tests: PrtCount) Certificate 12367 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)

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

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Submitted By: COLD MILL - Josh Edwards

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