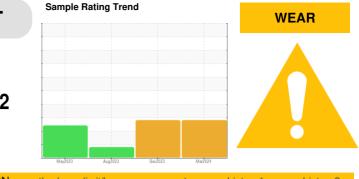


OIL ANALYSIS REPORT

ROLL SHOP 64 Herkules Headstock Gearbox 8100-011-0002 Component

Gearbox Fluid

PETRO CANADA ENDURATEX SYNTHETIC EP 150 (--- GAL)



DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		KFS0004861	KFS0005226	KFS0003621
Ve recommend you service the filters on this	Sample Date		Client Info		26 Mar 2024	19 Dec 2023	30 Aug 2023
omponent if applicable. Resample at the next	Machine Age	hrs	Client Info		0	0	0
ervice interval to monitor.	Oil Age	hrs	Client Info		0	0	0
Wear	Oil Changed		Client Info		N/A	N/A	N/A
ear wear is indicated.	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Contamination nere is a high amount of particulates present in	CONTAMINATIO	N	method	limit/base	current	history1	history2
the oil.	Water		WC Method	>0.2	NEG	NEG	NEG
Fluid Condition The AN level is acceptable for this fluid. The	WEAR METALS		method	limit/base	current	history1	history2
ndition of the oil is suitable for further service.	Iron	ppm	ASTM D5185m	>200	A 231	<u> </u>	4 240
	Chromium	ppm	ASTM D5185m	>15	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>15	2	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	1	<1	<1
	Lead	ppm	ASTM D5185m	>100	<1	0	1
	Copper	ppm	ASTM D5185m	>200	25	23	26
	Tin	ppm	ASTM D5185m	>25	4	2	3
	Vanadium	ppm	ASTM D5185m		0	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	<1
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	33	5	6	4
	Barium	ppm	ASTM D5185m	5	0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		4	4	4
	Magnesium	ppm	ASTM D5185m	5	2	0	5
	Calcium	ppm	ASTM D5185m	5	5	7	6
	Phosphorus	ppm	ASTM D5185m	437	322	346	391
	Zinc	ppm	ASTM D5185m	5	14	11	22
	Sulfur	ppm	ASTM D5185m	5000	6224	5131	6328
	CONTAMINANTS	S	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>50	<1	1	<1
	Sodium	ppm	ASTM D5185m		22	10	16
	Potassium	ppm	ASTM D5185m	>20	5	4	6
	FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>20000	🔺 236178	🔺 119681	
	Particles >6µm		ASTM D7647	>5000	67048	A 34813	
	Particles >14µm		ASTM D7647	>640	🔺 1191	1 075	
	Particles >21µm		ASTM D7647	>160	<u> </u>	A 215	
	Particles >38µm		ASTM D7647	>40	7	10	
	Particles >71µm		ASTM D7647	>10	2	2	
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	4 25/23/17	▲ 24/22/17	
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.7	0.81	0.81	0.80

Submitted By: COLD MILL - Josh Edwards



250 Ê 200

0

250 Ê 200 <u>응</u> 150 of D 100 50

0

300 250 200

100

50

1.00

(B/H03)

Ê 0.60

đ 0.40

Pig 0.20

0.00

170

165

160

() 155 () 150 (+) 150 145

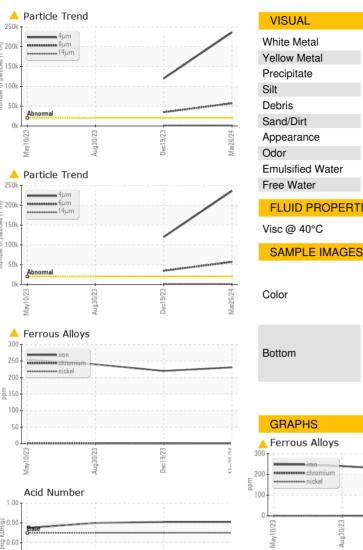
140

135

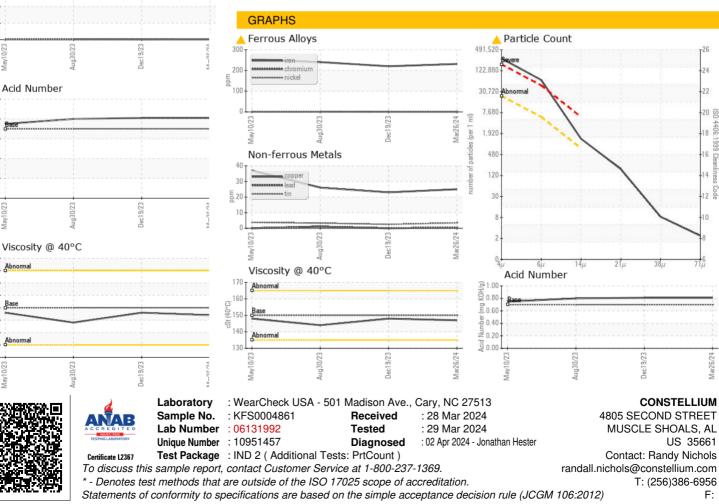
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Mav10/23

OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
		method				
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
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	LIGHT	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	150	147	148	144
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						
Bottom					00	



Submitted By: COLD MILL - Josh Edwards