

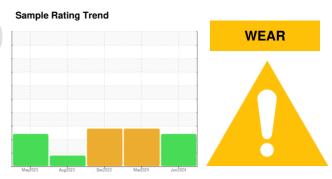
OIL ANALYSIS REPORT

ROLL SHOP

64 Herkules Headstock Gearbox 8100-011-0002

Gearbox

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



DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Gear wear is indicated.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

ZI 100 (GAL)	'					
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004443	KFS0004861	KFS0005226
Sample Date		Client Info		04 Jun 2024	26 Mar 2024	19 Dec 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	ABNORMAL
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	258	<u>^</u> 231	<u>^</u> 220
Chromium	ppm	ASTM D5185m	>15	<1	<1	<1
Nickel	ppm	ASTM D5185m	>15	<1	2	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	1	<1
Lead	ppm	ASTM D5185m	>100	<1	<1	0
Copper	ppm	ASTM D5185m	>200	30	25	23
Tin	ppm	ASTM D5185m	>25	3	4	2
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	33	6	5	6
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		3	4	4
Magnesium	ppm	ASTM D5185m	5	<1	2	0
Calcium	ppm	ASTM D5185m	5	0	5	7
Phosphorus	ppm	ASTM D5185m	437	331	322	346
Zinc	ppm	ASTM D5185m	5	14	14	11
Sulfur	ppm	ASTM D5185m	5000	4803	6224	5131
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	1	<1	1
Sodium	ppm	ASTM D5185m		11	22	10
Potassium	ppm	ASTM D5185m	>20	4	5	4
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000	123238	<u>▲</u> 236178	<u> </u>
Particles >6µm		ASTM D7647	>5000	41058	<u>▲</u> 57048	<u>▲</u> 34813
Particles >14μm		ASTM D7647	>640	△ 658	<u> </u>	<u> </u>
Particles >21μm		ASTM D7647	>160	97	<u>▲</u> 162	<u>^</u> 215
Particles >38μm		ASTM D7647	>40	8	7	10
Particles >71μm		ASTM D7647	>10	2	2	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/23/17	<u>△</u> 25/23/17	2 4/22/17
FLUID DEGRADAT	ION	method	limit/base	current	history1	history2

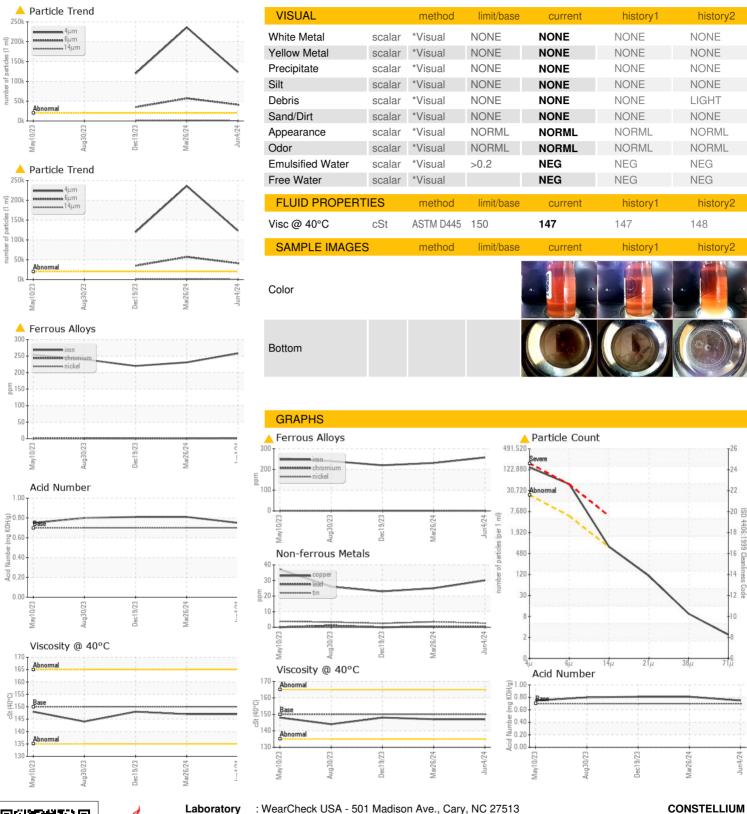
Acid Number (AN)

mg KOH/g ASTM D8045 0.7

0.81 0.81 Submitted By: COLD MILL - Josh Edwards



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

Lab Number

: KFS0004443 : 06214643 Unique Number : 11087507

Received **Tested**

: 20 Jun 2024 Diagnosed : 21 Jun 2024 - Don Baldridge Test Package : IND 2 (Additional Tests: PrtCount)

: 19 Jun 2024

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

 st - 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)

4805 SECOND STREET MUSCLE SHOALS, AL

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