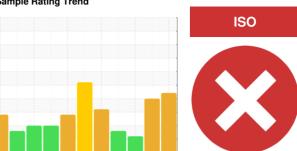


PROBLEM SUMMARY

Sample Rating Trend



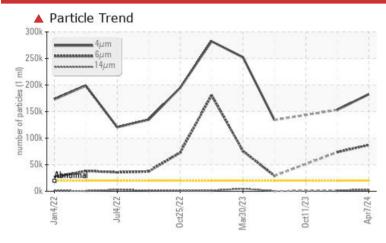
FP-010

B58916 - CONVEYOR AUGER KSI #4

Gearbox

PETRO CANADA SYNDURO SHB ISO 460 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS						
Sample Status		SEVERE	SEVERE	ABNORMAL		
Particles >4µm	ASTM D7647 >2	2 00000 A 182512	<u>▲</u> 153198			
Particles >6µm	ASTM D7647 >5	6000 A 86983	1 73605			
Particles >14µm	ASTM D7647 >6	640 2537	▲ 1869			
Particles >21µm	ASTM D7647 >	160 439	293			
Oil Cleanliness	ISO 4406 (c) >2	21/19/16 4 25/24/19	4 24/23/18			

Customer Id: HORAUS Sample No.: WC0907938 Lab Number: 06147312 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.	
Resample			?	Resample in 30-45 days to monitor this situation.	
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.	
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.	
Check Dirt Access			?	We advise that you check all areas where contaminants can enter the system.	
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.	

HISTORICAL DIAGNOSIS

01 Jan 2024 Diag: Wes Davis

ISO



Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





11 Oct 2023 Diag: Don Baldridge

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Appearance is hazy. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.





01 Jul 2023 Diag: Don Baldridge

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.





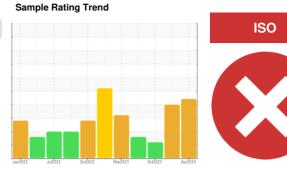
OIL ANALYSIS REPORT

FP-010

B58916 - CONVEYOR AUGER KSI #4

Gearbox

PETRO CANADA SYNDURO SHB ISO 460 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

Fluid Condition

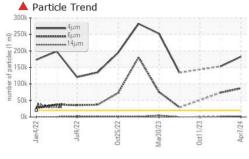
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

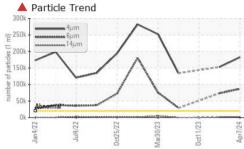
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0907938	WC0880556	WC0850210
Sample Date		Client Info		07 Apr 2024	01 Jan 2024	11 Oct 2023
Machine Age	days	Client Info		0	0	0
Oil Age	days	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	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	43	52	54
Chromium	ppm	ASTM D5185m	>15	<1	<1	0
Nickel	ppm	ASTM D5185m	>15	1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	2	0
Lead	ppm	ASTM D5185m	>100	1	<1	0
Copper	ppm	ASTM D5185m	>200	1	1	<1
Tin	ppm	ASTM D5185m	>25	1	<1	0
Vanadium	ppm	ASTM D5185m	7 _ 0	<1	0	0
Cadmium	ppm	ASTM D5185m		1	<1	0
	PPIII					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	1	0
Barium	ppm	ASTM D5185m	5.0	0	7	0
Molybdenum	ppm	ASTM D5185m		1	<1	0
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	5.0	<1	<1	0
Calcium	ppm	ASTM D5185m	5.0	5	2	0
Phosphorus	ppm	ASTM D5185m	60	86	104	96
Zinc	ppm	ASTM D5185m	5.0	2	0	0
Sulfur	ppm	ASTM D5185m	1900	2387	2472	2183
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	2	2
Sodium	ppm	ASTM D5185m		3	0	2
Potassium	ppm	ASTM D5185m	>20	3	2	2
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	182512	<u></u> 153198	
Particles >6µm		ASTM D7647	>5000	A 86983	1 73605	
Particles >14μm		ASTM D7647	>640	2537	▲ 1869	
Particles >21µm		ASTM D7647	>160	439	293	
Particles >38µm		ASTM D7647	>40	18	4	
Particles >71µm		ASTM D7647	>10	1	1	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	25/24/19	<u>▲</u> 24/23/18	
FLUID DEGRADA	TION _	method	limit/base	current	history1	history2
LOID DEGITION				- Jan Jin		

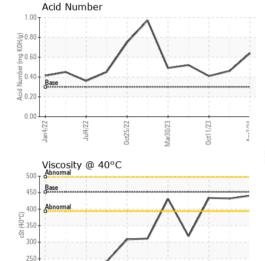
Contact/Location: RYAN LOWE - HORAUS

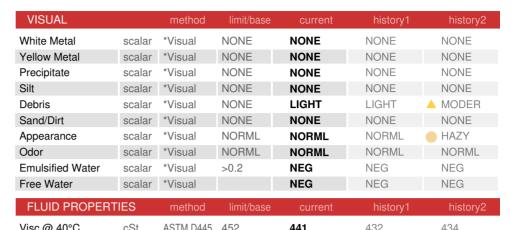


OIL ANALYSIS REPORT



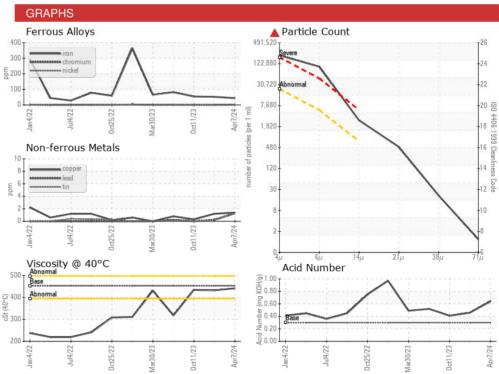






VISC @ 40 C	USI	ASTIVI D443	452	441	432	434
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color						

Bottom	





200



/Jar30/23

Laboratory Sample No.

Lab Number : 06147312

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0907938 Unique Number : 10977390

Received : 12 Apr 2024 **Tested** Diagnosed

: 15 Apr 2024

: 15 Apr 2024 - Wes Davis

Test Package : IND 2 (Additional Tests: PrtCount) Certificate 12367 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)

rslowe@hormel.com T: (507)437-5674 F: (507)437-9805

Contact/Location: RYAN LOWE - HORAUS

HORMEL FOODS - AUSTIN

1101 NORTH MAIN ST

Contact: RYAN LOWE

AUSTIN, MN

US 55912