

OIL ANALYSIS REPORT

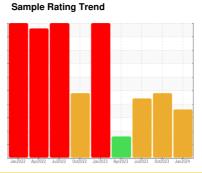
FP-010

B59276 - CONVEYOR KSI INCLINE SCREW RAW PROD KSI #11

Component

Gearbox

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





DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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.

Contamination

Appearance is hazy. High concentration of visible dirt/debris present in the oil. There is a high amount of visible silt present in the sample. There is a moderate concentration of water present in the oil.

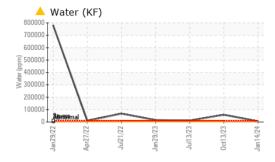
Fluid Condition

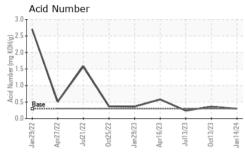
The AN level is acceptable for this fluid.

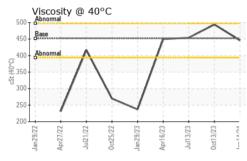
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0885543	WC0838657	WC0826113
Sample Date		Client Info		14 Jan 2024	13 Oct 2023	13 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ABNORMAL	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	49	103	86
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	<1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm		>200	<1	0	<1
Tin	ppm	ASTM D5185m	>25	0	2	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	5	0
Barium	ppm	ASTM D5185m	5.0	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		1	<1	2
Magnesium	ppm	ASTM D5185m	5.0	<1	1	2
Calcium	ppm	ASTM D5185m	5.0	4	10	5
Phosphorus	ppm	ASTM D5185m	60	59	83	460
Zinc	ppm	ASTM D5185m	5.0	0	0	1
Sulfur	ppm	ASTM D5185m	1900	1877	2275	133
CONTAMINANTS	}	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	4	20
Sodium	ppm	ASTM D5185m		5	33	9
Potassium	ppm	ASTM D5185m	>20	0	2	0
Water	%	ASTM D6304	>0.2	0.536	5.82	1.18
ppm Water	ppm	ASTM D6304	>2000	△ 5360	58200	11800
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000			
Particles >6µm		ASTM D7647	>5000			
Particles >14µm		ASTM D7647	>640			
Particles >21µm		ASTM D7647	>160			
Particles >38µm		ASTM D7647	>40			
Particles >71µm		ASTM D7647	>10			
Oil Cleanliness		ISO 4406 (c)	>21/19/16			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.3	0.30	0.36	0.24



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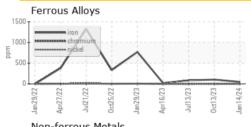


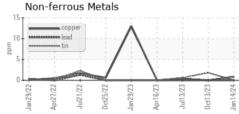
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ HEAVY	▲ HEAVY	NONE
Debris	scalar	*Visual	NONE	▲ HEAVY	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ HAZY	▲ MILKY	▲ MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	452	446	494	454
SAMPLE IMAGES		method	limit/base	current	history1	history2

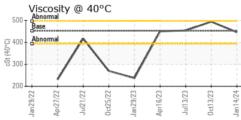
GRAPHS

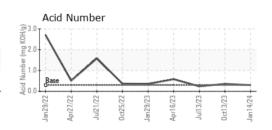
Color

Bottom













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0885543 Lab Number : 06065574

Unique Number: 10836956

Received **Tested**

Diagnosed

: 19 Jan 2024 : 07 Feb 2024 : 07 Feb 2024 - Doug Bogart

Test Package: IND 2 (Additional Tests: KF, PrtCount) 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)

HORMEL FOODS - AUSTIN

1101 NORTH MAIN ST AUSTIN, MN US 55912

Contact: RYAN LOWE rslowe@hormel.com

T: (507)437-5674 F: (507)437-9805

Report Id: HORAUS [WUSCAR] 06065574 (Generated: 02/08/2024 07:18:11) Rev: 1

Contact/Location: RYAN LOWE - HORAUS