

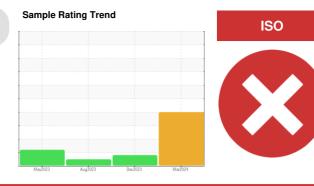
PROBLEM SUMMARY

ROLL SHOP

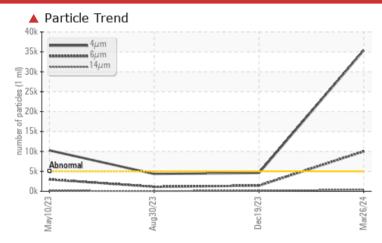
36 Landis Spindle Lube 8100-010-0002

Hydraulic System

PETRO CANADA HYDREX AW 32 (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS							
Sample Status			SEVERE	ATTENTION	NORMAL		
Particles >4µm	ASTM D7647	>5000	△ 35376	4587	4347		
Particles >6µm	ASTM D7647	>1300	10020	1412	1120		
Particles >14µm	ASTM D7647	>160	4 398	139	69		
Oil Cleanliness	ISO 4406 (c)	>19/17/14	22/21/16	19/18/14	19/17/13		

Customer Id: CONMUSAL **Sample No.:** KFS0004792 Lab Number: 06131972 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 recommend you service the filters on this component. Resample ? Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type ? Information Required and micron rating with next sample. The air breather requires service. If unrated, we recommend that you replace with a **Check Breathers** ? suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather Check Seals Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS

19 Dec 2023 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



30 Aug 2023 Diag: Wes Davis





Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



10 May 2023 Diag: Don Baldridge

ISO



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





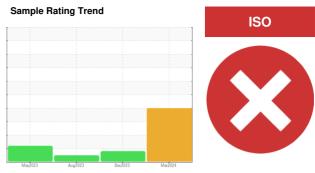
OIL ANALYSIS REPORT

ROLL SHOP

36 Landis Spindle Lube 8100-010-0002

Hydraulic System

PETRO CANADA HYDREX AW 32 (--- GAL)



DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

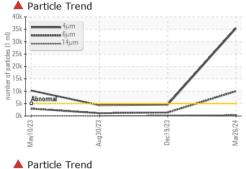
Fluid Condition

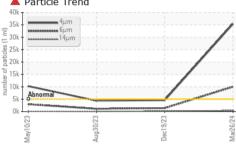
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

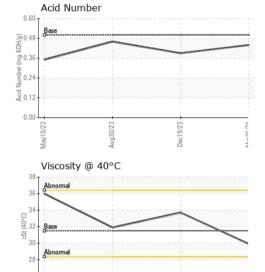
		May202		Dec2023 A	1ar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004792	KFS0004897	KFS0003618
Sample Date		Client Info		26 Mar 2024	19 Dec 2023	30 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ATTENTION	NORMAL
CONTAMINATIO	V	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	<1
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	2	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	2	15	3
Tin	ppm	ASTM D5185m	>20	<1	<1	<1
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	0	<1	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	0	2	6	4
Calcium	ppm	ASTM D5185m	50	44	55	51
Phosphorus	ppm	ASTM D5185m	330	259	399	334
Zinc	ppm	ASTM D5185m	430	418	421	437
Sulfur	ppm	ASTM D5185m	760	923	1014	980
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		0	0	<1
Sodium	ppm	ASTM D5185m		5	9	22
Potassium	ppm	ASTM D5185m	>20	4	4	9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	<u>^</u> 35376	4587	4347
Particles >6µm		ASTM D7647	>1300	10020	1412	1120
Particles >14μm		ASTM D7647	>160	▲ 398	139	69
Particles >21µm		ASTM D7647	>40	80	41	20
Particles >38µm		ASTM D7647	>10	5	5	2
Particles >71μm		ASTM D7647	>3	0	1	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	22/21/16	19/18/14	19/17/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

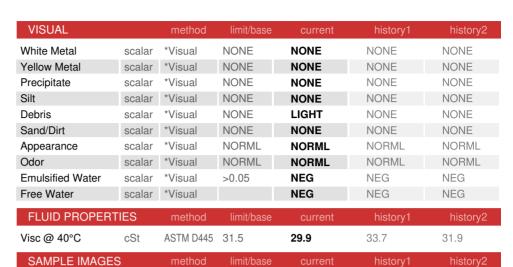


OIL ANALYSIS REPORT

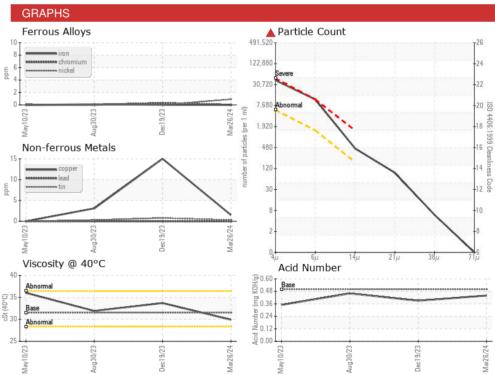








Color		
Bottom		







Certificate L2367

Laboratory Sample No. Lab Number

: 06131972 Unique Number: 10951437 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KFS0004792

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

Received **Tested** Diagnosed

: 28 Mar 2024 : 29 Mar 2024

: 29 Mar 2024 - Wes Davis

CONSTELLIUM 4805 SECOND STREET MUSCLE SHOALS, AL US 35661

Contact: Randy Nichols

randall.nichols@constellium.com T: (256)386-6956

* - 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)

Report Id: CONMUSAL [WUSCAR] 06131972 (Generated: 03/29/2024 11:37:24) Rev: 1

Submitted By: COLD MILL - Josh Edwards

F: