

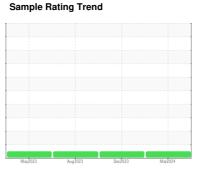
OIL ANALYSIS REPORT

ROLL SHOP

44 Farrel Spindle Lube 8100-014-0002

Hydraulic System

PETRO CANADA HYDREX MV 32 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

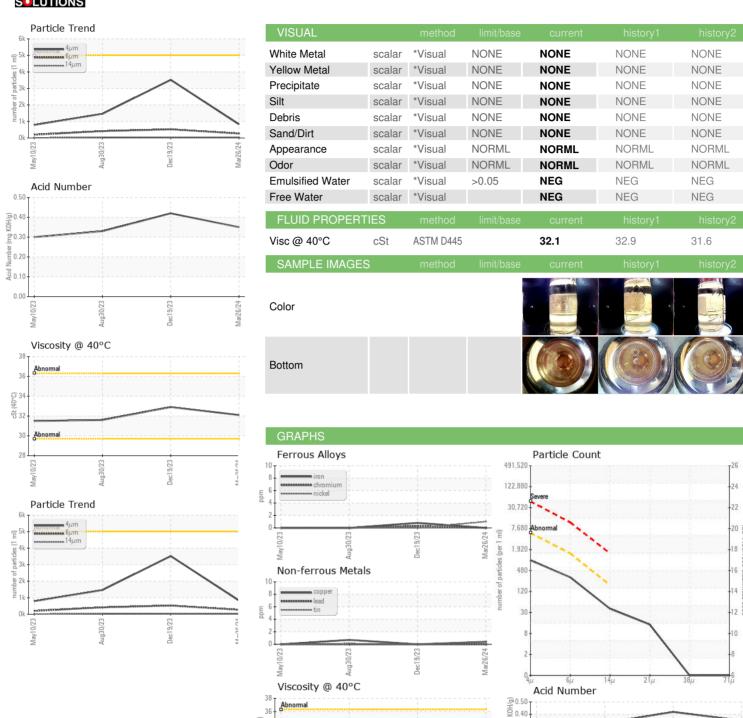
Fluid Condition

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

		May202	3 Aug2023	Dec2023 M	ar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004784	KFS0004898	KFS0003660
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				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	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	<1	0
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	<1	0	<1
Tin	ppm	ASTM D5185m	>20	<1	0	<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	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		<1	<1	4
Calcium	ppm	ASTM D5185m		46	33	44
Phosphorus	ppm	ASTM D5185m		253	268	313
Zinc	ppm	ASTM D5185m		403	290	404
Sulfur	ppm	ASTM D5185m		880	743	883
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	5	4	6
Sodium	ppm	ASTM D5185m		1	5	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	830	3518	1464
Particles >6µm		ASTM D7647	>1300	270	523	415
Particles >14μm		ASTM D7647	>160	34	31	40
Particles >21µm		ASTM D7647	>40	12	10	12
Particles >38µm		ASTM D7647	>10	0	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/12	19/16/12	18/16/12
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.35	0.42	0.33



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number

: 06131973 Unique Number: 10951438

SSt (

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: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KFS0004784

Test Package : IND 2

Received : 28 Mar 2024 **Tested** : 29 Mar 2024 Diagnosed

Dec19/23

: 02 Apr 2024 - Jonathan Hester

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> 4805 SECOND STREET MUSCLE SHOALS, AL

Contact: Randy Nichols

CONSTELLIUM

US 35661

F:

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

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)