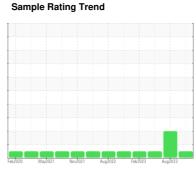


OIL ANALYSIS REPORT

Area TRIM B44861 (S/N MM-4-TC-IV-3288-L)

Hydraulic System

PETRO CANADA PURITY FG HYDRAULIC AW 68 (--- 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.

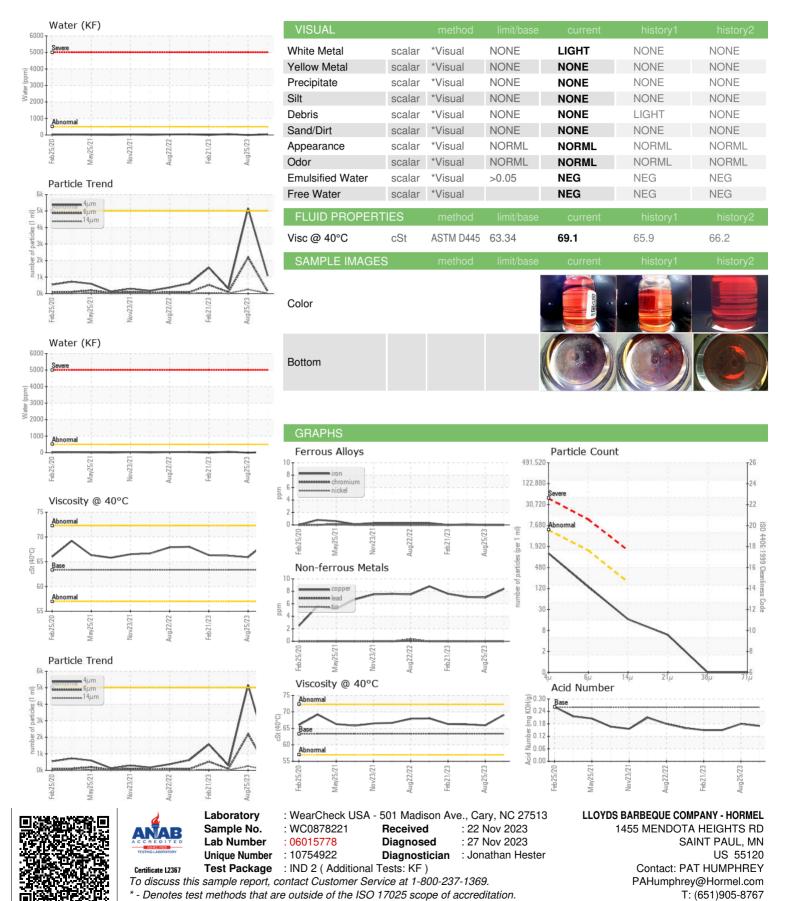
Fluid Condition

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

SAMPLE INFORMATION method limit base current history1 history2	AW 00 (GAL)		Feb 2020	May2021 Nov2021	Aug2022 Feb2023 A	ug2023	
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 0 0 0 0 0 0 0 0	Sample Number		Client Info		WC0878221	WC0846268	WC0794808
Oil Age hrs Client Info Not Changd N/A Not Changd Sample Status NORMAL NORMAL ATTENTION NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 0 0 <1	Sample Date		Client Info		20 Nov 2023	25 Aug 2023	24 May 2023
Oil Changed Sample Status	Machine Age	hrs	Client Info		0	0	0
Sample Status NORMAL ATTENTION NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 0 0 0 Chromium ppm ASTM D5185m >20 0 0 0 Nickel ppm ASTM D5185m >20 0 0 0 Titanium ppm ASTM D5185m >20 0 0 0 Aluminum ppm ASTM D5185m >20 0 <1	Oil Age	hrs	Client Info		0	0	0
WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM D5185m ≥20 0 0 <1	Oil Changed		Client Info		Not Changd	N/A	Not Changd
Iron	Sample Status				NORMAL	ATTENTION	NORMAL
Chromium ppm ASTM D5185m >20 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >20 0 -1 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Iron	ppm	ASTM D5185m	>20	0	0	<1
Titanium ppm ASTM D5185m 0	Chromium	ppm	ASTM D5185m	>20	0	0	0
Silver	Nickel	ppm	ASTM D5185m	>20	0	0	0
Aluminum ppm ASTM 05185m >20 0 <1 <1 <1	Titanium	ppm	ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >20 0 0 0 Copper ppm ASTM D5185m >20 8 7 7 Tin ppm ASTM D5185m >20 0 0 0 Vanadium ppm ASTM D5185m -1 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Zilico ppm ASTM D5185m 18 15 18 15	Silver	ppm	ASTM D5185m		0	0	0
Copper ppm ASTM D5185m >20 8 7 7 Tin ppm ASTM D5185m >20 0 0 0 Vanadium ppm ASTM D5185m <1	Aluminum	ppm	ASTM D5185m	>20	0	<1	<1
Copper ppm ASTM D5185m >20 8 7 7 Tin ppm ASTM D5185m >20 0 0 0 Vanadium ppm ASTM D5185m <-1	Lead	ppm	ASTM D5185m	>20	0	0	0
Tin ppm ASTM D5185m >20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Copper		ASTM D5185m	>20	8	7	7
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 373 415 416 18 Zinc ppm ASTM D5185m 18 15 18 18 15 18 Sulfur ppm ASTM D5185m 16 4 3 3 3 41 1 1 1 1 1		ppm	ASTM D5185m	>20	0	0	0
ADDITIVES	Vanadium	ppm	ASTM D5185m		<1	0	0
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OIL ANALYSIS REPORT



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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