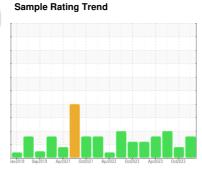


OIL ANALYSIS REPORT

Wetstarch MPL Bay 6 Hydraulic System

Reservoir Hydraulic System

PETRO CANADA HYDREX AW 32 (30 GAL)





DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

All component wear rates are normal.

Contamination

There is a moderate 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.

)		Jan2018 Sep2	019 Apr2021 Oct2021	Apr2022 Oct2022 Apr2023	Oct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0886162	WC0816905	WC0635835
Sample Date		Client Info		24 Jan 2024	30 Oct 2023	26 Jul 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	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	<1	0	1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	1	2	0
Tin	ppm	ASTM D5185m	>20	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
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	<1	0	0
Magnesium	ppm	ASTM D5185m	0	0	<1	2
Calcium	ppm	ASTM D5185m	50	13	18	21
Phosphorus	ppm	ASTM D5185m	330	274	266	264
Zinc	ppm	ASTM D5185m	430	236	291	314
Sulfur	ppm	ASTM D5185m	760	715	788	961
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	<1
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	<u>▲</u> 11942	<u>^</u> 22902
Particles >6µm		ASTM D7647	>1300	<u> </u>	1105	▲ 3825
Particles >14μm		ASTM D7647	>160	204	61	183
Particles >21μm		ASTM D7647	>40	28	23	▲ 58
Particles >38μm		ASTM D7647	>10	1	1	2
Particles >71μm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>22/19/15</u>	<u>^</u> 21/17/13	<u>22/19/15</u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
A adal Niconala au (ANI)	ma 1/011/a	ACTM DODAE	0.50	0.50	0.47	0.51

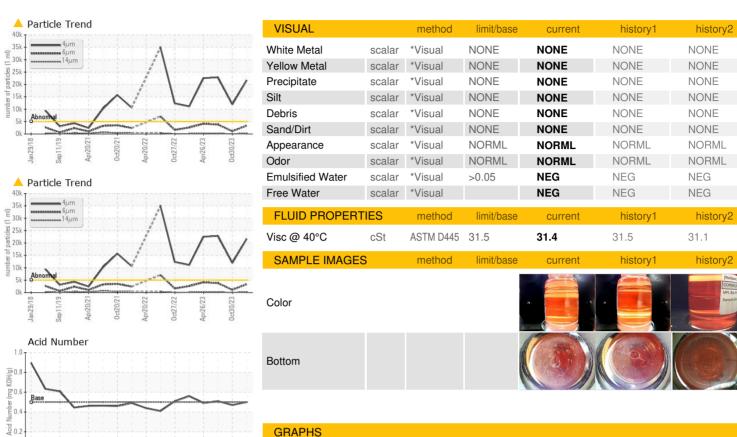
Acid Number (AN)

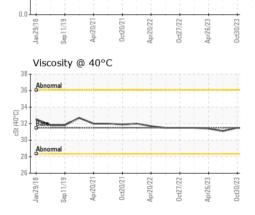
mg KOH/g ASTM D8045 0.50

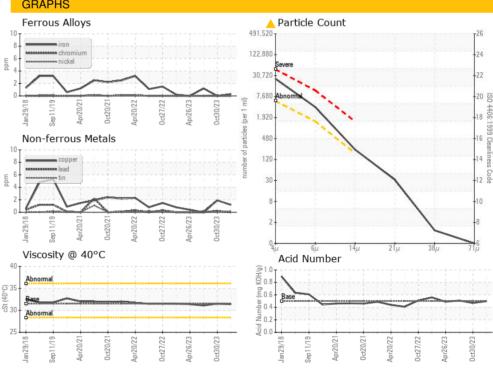
0.47



OIL ANALYSIS REPORT











Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0886162 : 06075698 : 10857789

Recieved Diagnosed

: 31 Jan 2024 Diagnostician

: 01 Feb 2024 : Wes Davis

INGREDION INC

WINSTON SALEM PLANT, 4501 OVERDALE ROAD WINSTON SALEM, NC

US 27107

Contact: MATTHEW KING

matthew.king@ingredion.com

T: F: (336)785-8809

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

: IND 2

* - 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)