

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id MARLEN 3 PLT 1

Component Hydraulic System

PETRO CANADA HYDREX AW 68 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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 condition of the oil is suitable for further service.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012553	USP0005621	USP0000771
Sample Date		Client Info		04 Jun 2024	23 Jan 2024	06 Aug 2023
Machine Age	days	Client Info		0	0	0
Oil Age	days	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
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	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
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	7	2	1
Tin	ppm	ASTM D5185m	>20	0	<1	0
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	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m	0	0	<1	0
Magnesium	ppm	ASTM D5185m	0	2	11	3
Calcium	ppm	ASTM D5185m	50	48	62	54
Phosphorus	ppm	ASTM D5185m	330	312	326	349
Zinc	ppm	ASTM D5185m	430	394	418	415
Sulfur	ppm	ASTM D5185m	760	1016	924	1046
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	0
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	0.001	0.013	0.008
ppm Water	ppm	ASTM D6304	>500	12	139	88.4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	40119	2513	475
Particles >6µm		ASTM D7647	>1300	<mark> </mark> 2031	651	119
Particles >14µm		ASTM D7647	>160	25	53	8
Particles >21µm		ASTM D7647	>40	5	12	2
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 23/18/12	19/17/13	16/14/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.60	0.30	0.35	0.46

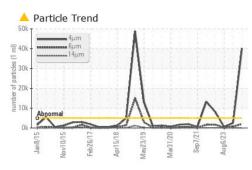


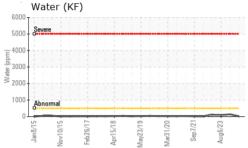
Contact/Location: ? ? - ARMSAIIL Page 1 of 2

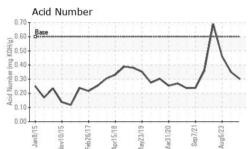


OIL ANALYSIS REPORT

method







nr15/1

h JG/

Ph26/1

Viscosity @ 40°C

lav/3/1

Water (KF)

600 500

d) 3000 Xater 2000

100

8

75

cSt (40°C)

5

50

л

Abno

Ab



limit/base

current

Color

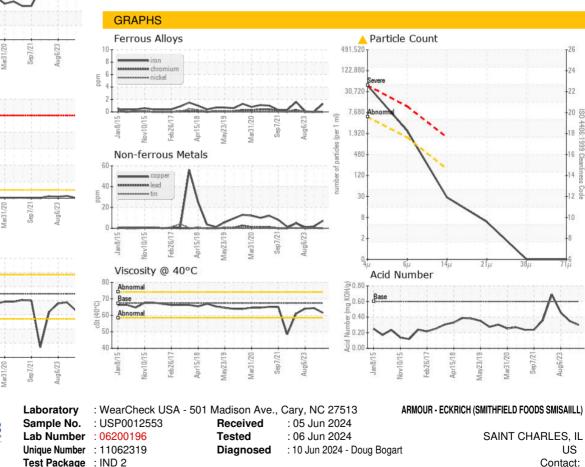
VISUAL

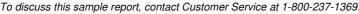


history1

history2

Bottom





* - 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)

T: F:

Certificate 12367

Contact/Location: ? ? - ARMSAIIL