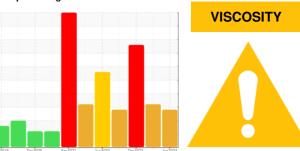


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

CAHE-HRS552151 WELLHEAD HPU RETURN

Hydraulic System

MOBIL GLYGOYLE 22 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. 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 moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Fluid Condition

Viscosity of sample indicates oil is within ISO 10 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

		Jun2019	Dec2020 Sep2021	Jun2023 Dec2023	Jun2024	
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Sample Number	W C I O I V	Client Info	IIIIII Dasc	PP13846498	PP13974640	PP13846498
Sample Date		Client Info		19 Jun 2024	18 Mar 2024	13 Dec 2023
Machine Age	hrs	Client Info		0	0	0
	hrs	Client Info		0	0	0
Oil Age	1115	Client Info		N/A	N/A	N/A
Oil Changed		Cilent Inio		ABNORMAL	ABNORMAL	SEVERE
Sample Status				-		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<1	2	3
Chromium	ppm	ASTM D5185(m)	>10	0	0	<1
Nickel	ppm	ASTM D5185(m)	>10	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	0	0	<1
Lead	ppm	ASTM D5185(m)	>20	0	0	<1
Copper	ppm	ASTM D5185(m)	>20	0	0	<1
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	<1	<1
Barium	ppm	ASTM D5185(m)		2280	2621	3074
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		<1	<1	<1
Calcium	ppm	ASTM D5185(m)		3	7	8
Phosphorus	ppm	ASTM D5185(m)		228	252	286
Zinc	ppm	ASTM D5185(m)		<1	1	2
Sulfur	ppm	ASTM D5185(m)		526	661	905
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS)	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	2	0	2
Sodium	ppm	ASTM D5185(m)	710	0	2	5
Potassium	ppm	ASTM D5185(m)	>20	1	<1	2
Water	%	ASTM D6304*	>0.05	0.032		
ppm Water	ppm	ASTM D6304*	>500	321		
FLUID CLEANLIN		method	limit/base	current	history1	history2
	ILOO					
Particles >4µm		ASTM D7647	>5000	▲ 15447	12032	▲ 72961 ▲ 10444
Particles >6µm		ASTM D7647	>1300	<u>4143</u>	▲ 2863 ● 204	19444
Particles >14µm		ASTM D7647	>160	285	294	1394
Particles >21µm		ASTM D7647		43	▲ 83	▲ 317
Particles >38µm		ASTM D7647	>10	2	3	13
Particles >71µm		ASTM D7647	>3	0	1	1
Oil Claanliness		ISO 1106 (a)	- 10/17/1/	A 21/10/15	A 21/10/15	A 22/21/10

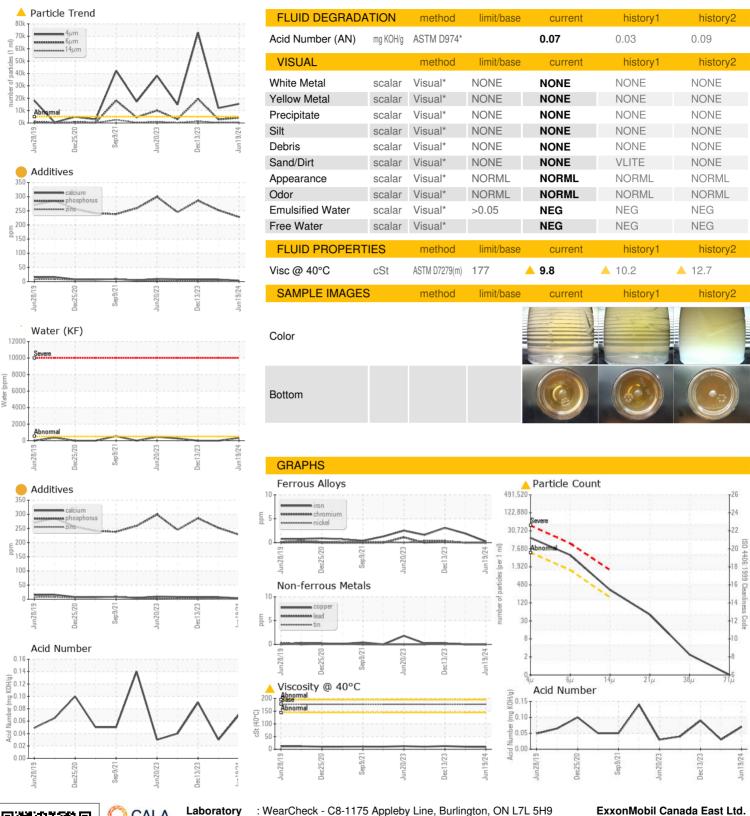
ISO 4406 (c) >19/17/14 **21/19/15**

21/19/15

23/21/18



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No. Lab Number Unique Number : 5813503

: PP13846498

: 02647951

Received : 15 Jul 2024 **Tested** Diagnosed

: 21 Jul 2024 - Kevin Marson Test Package : MAR 2 (Additional Tests: KF, TAN Man)

: 21 Jul 2024

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Hebron-Materials and Repair Coordin, Suite 1000, 100 New Gow St. John's, NL

CA A1C 6K3 Contact: Liam Maher liam.m.maher@exxonmobil.com

T: (709)273-3729