

OIL ANALYSIS REPORT

Area [20567321]

Component
New (Unused) Oil
Fluid

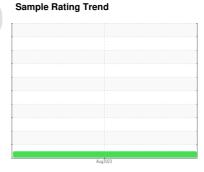
{not provided} (--- GAL)

EXXON NUTO H 46

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample.

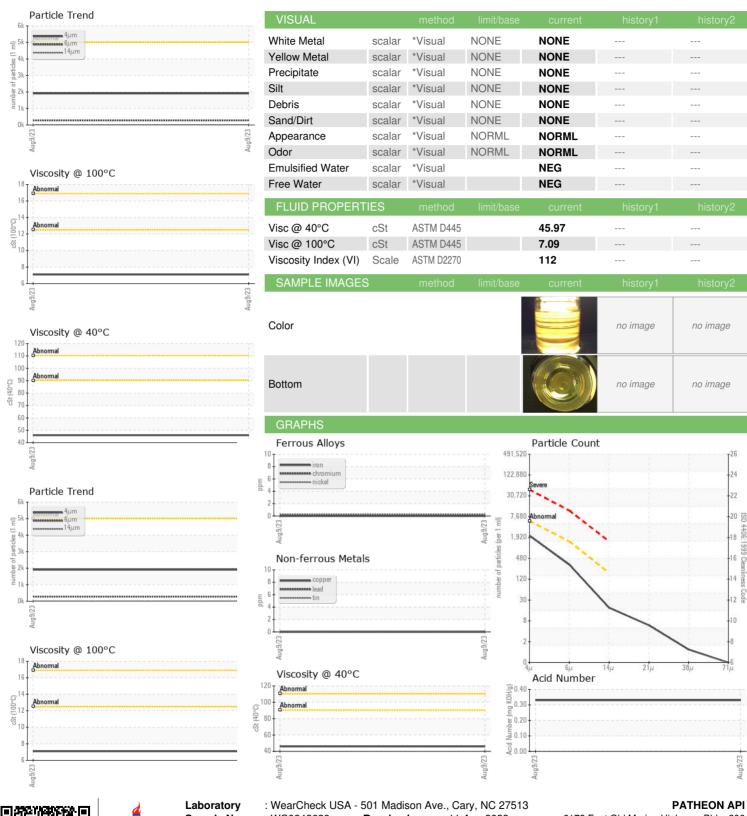




SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0842629		
Sample Date		Client Info		09 Aug 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>5	0		
Chromium	ppm	ASTM D5185m	>5	0		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>5	0		
Aluminum	ppm	ASTM D5185m	>5	0		
Lead	ppm	ASTM D5185m	>5	0		
Copper	ppm	ASTM D5185m	>5	0		
Tin	ppm	ASTM D5185m	>5	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		1		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		49		
Phosphorus	ppm	ASTM D5185m		338		
Zinc	ppm	ASTM D5185m		453		
Sulfur	ppm	ASTM D5185m		3836		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	<1		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1906		
Particles >6µm		ASTM D7647	>1300	280		
Particles >14µm		ASTM D7647	>160	16		
Particles >21µm		ASTM D7647	>40	5		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/15/11		
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.33		



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Certificate L2367

Sample No. Lab Number **Unique Number**

: WC0842629 : 05922965 : 10602912

Received Diagnosed

: 11 Aug 2023 : 15 Aug 2023 Diagnostician : Jonathan Hester Test Package : IND 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, VI)

6173 East Old Marion Highway, Bldg. 806 Florence, SC

Contact/Location: BARRY OLIVER - ROCFLO

US 29506 Contact: BARRY OLIVER Calvin.Oliver@Roche.com

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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)

F: (843)629-4553