

## **OIL ANALYSIS REPORT**

Sample Rating Trend



## Area [20585652] EXXON NUTO H46

New (Unused) Oil Fluid {not provided} (--- GAL)

## DIAGNOSIS

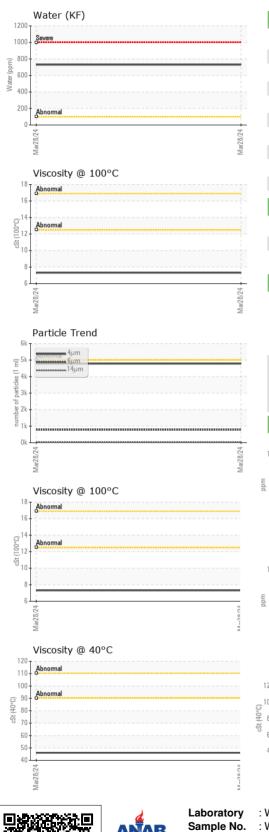
Recommendation

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0871187		
Sample Date		Client Info		28 Mar 2024		
Machine Age	mths	Client Info		0		
Oil Age	mths	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	0		
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		ASTM D5185m	>5	0		
Cadmium	ppm ppm	ASTM D5185m		0		
	ррпп			-		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		51		
Phosphorus	ppm	ASTM D5185m		346		
Zinc	ppm	ASTM D5185m		436		
Sulfur	ppm	ASTM D5185m		4301		
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304		0.073		
ppm Water	ppm	ASTM D6304		730		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	4782		
Particles >6µm		ASTM D7647	>1300	778		
Particles >14µm		ASTM D7647	>160	36		
Particles >21µm		ASTM D7647	>40	10		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/17/12		
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.36		



## **OIL ANALYSIS REPORT**



	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
Mar28/24	Appearance	scalar	*Visual	NORML	NORML		
N N N N N N N N N N N N N N N N N N N	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual		0.2%		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPER	RTIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445		46.08		
	Visc @ 100°C	cSt	ASTM D445		7.31		
	Viscosity Index (VI)		ASTM D2270		120		
8/24 -	SAMPLE IMAGE	-5	method	limit/base	current	history1	history2
	Color					no image	no image
	Bottom					no image	no image
	GRAPHS						
- 	Ferrous Alloys				Particle Count		
Mar28/24	10 8 iron			491,520			T <sup>26</sup>
2	E 6			122,880	·		-24
	a 4			30,720	Severe		-22
	2			7 690	Abnormal		20
				8/24 1 ml)	Autoinia		20
	Mar28/24			Mar28/24 1006 (per 1 ml)		•	+20 +18 +16
	Non-ferrous Met	als		480 ·			-16
	10 copper			120-		•	14
	annannen lead			2			
V C	4			30.			-12
/8C~~1	2			8.			-10
14	24 74			4Z 2.			-8
	Mar28/24			Mar28/24			
	≥ Viscosity @ 40°C			< 0. 4		14µ 21µ	38µ 71µ
	<sup>120</sup> Abnormal			⊃∩ 4∩.	Acid Number		
	Q			HO 20			
	0,100 <b>Abnormal</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			E 0.20			
	30 60			(B) 0.40 (B) 0.30 (B) 0.20 (B) 0.20 (B) 0.20			
	40						
					8/24		
V G G C	Mar28/24			Mar28/24	Mar28/24		
Laboratory Sample No. Lab Number		Recei Teste	ived : 01 ed : 04	, NC 27513 Apr 2024 Apr 2024 Apr 2024 - Jonath		<b>TH</b> I t Old Marion Hiç	ERMO FISHE ghway, Bldg. 80 Florence, S US 2950

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

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