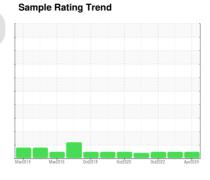


OIL ANALYSIS REPORT

Machine Id P-301 (S/N 1000098605) Component Pump

MOBIL DTE ISO VG 46 (--- QTS)





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

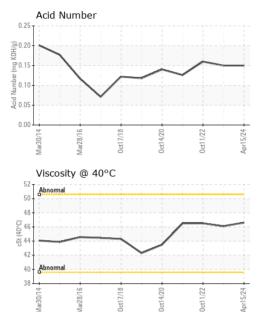
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

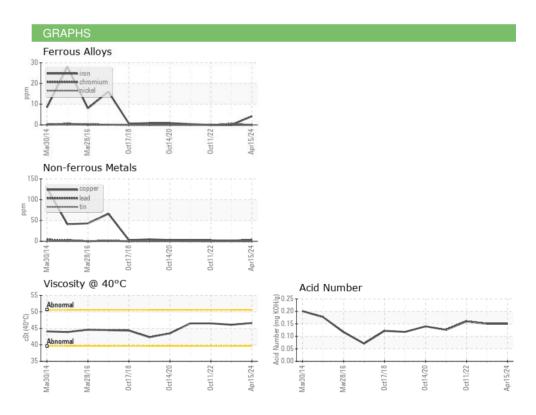
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0861265	WC0749401	WC0749394
Sample Date		Client Info		15 Apr 2024	05 Oct 2023	11 Oct 2022
Machine Age	yrs	Client Info		12	11	10
Oil Age	yrs	Client Info		1	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	4	0	0
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>5	<1	0	<1
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>15	4	2	2
Tin	ppm	ASTM D5185m		<1	0	<1
Antimony	ppm	ASTM D5185m				
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
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		<1	0	0
Phosphorus	ppm	ASTM D5185m		115	111	119
Zinc	ppm	ASTM D5185m		77	89	76
Sulfur	ppm	ASTM D5185m		767	665	538
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1	0	<1
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	2	<1	0
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.15	0.15	0.16



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		46.6	46.1	46.5
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color					TITULE TO THE PARTY OF THE PART	9







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06152133 Unique Number : 10982211

: WC0861265

Bottom

Received : 17 Apr 2024 **Tested** : 18 Apr 2024

Diagnosed

: 19 Apr 2024 - Sean Felton

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

US 27524 Contact: STEVE SMITH steve.smith@duke-energy.com

T: (919)689-3907 F: (919)689-3360

PIEDMONT NATURAL GAS

FOUR OAKS, NC

2256 HARPER HOUSE ROAD

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Test Package : IND 2

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

Report Id: PIEFOR [WUSCAR] 06152133 (Generated: 04/20/2024 10:03:32) Rev: 1

Contact/Location: STEVE SMITH - PIEFOR