



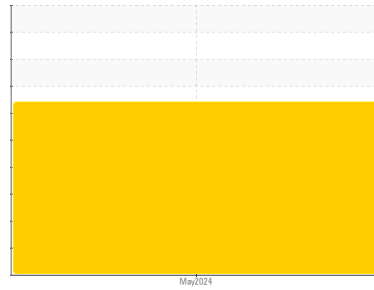
PROBLEM SUMMARY

Sample Rating Trend

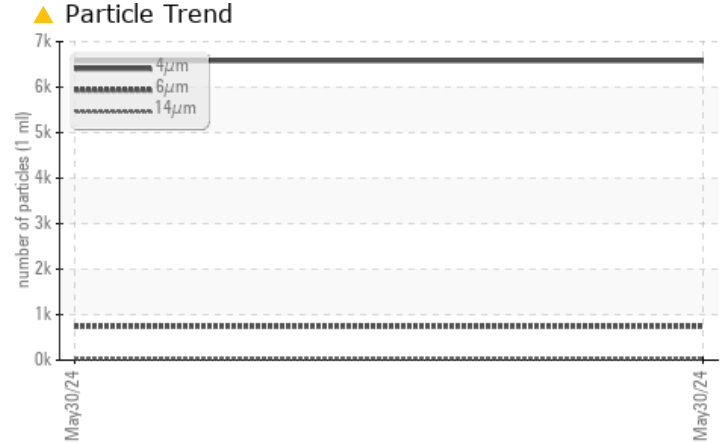
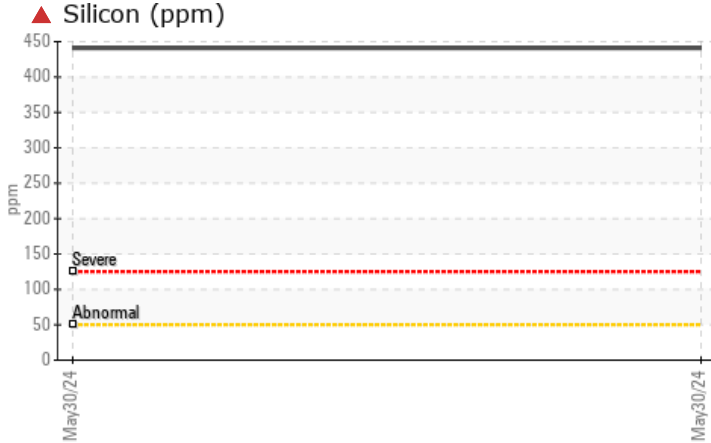
DIRT



Machine Id
SUNDYNE MIDCOAST ENERGY NORTH
 Component
Pump Gearbox
 Fluid
MOBIL SHC 525 (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	---	---
Silicon	ppm	ASTM D5185m >50	▲ 441	---	---
Particles >6µm		ASTM D7647 >160	▲ 741	---	---
Particles >14µm		ASTM D7647 >20	▲ 37	---	---
Particles >21µm		ASTM D7647 >4	▲ 10	---	---
Oil Cleanliness		ISO 4406 (c) >14/11	▲ 17/12	---	---

Customer Id: DXPGRA
 Sample No.: WC0706673
 Lab Number: 06234853
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

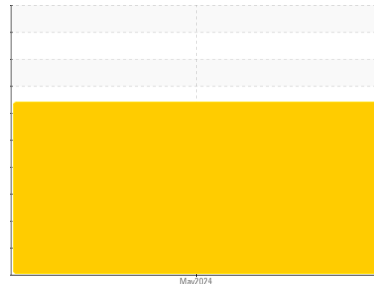
Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
SUNDYNE MIDCOAST ENERGY NORTH
 Component
Pump Gearbox
 Fluid
MOBIL SHC 525 (--- GAL)

DIAGNOSIS

Recommendation
 We advise that you check all areas where dirt can enter the system. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear
 All component wear rates are normal.

Contamination
 There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.

Fluid Condition
 The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0706673	---	---
Sample Date	Client Info		30 May 2024	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	8	---
Chromium	ppm	ASTM D5185m	>15	0	---
Nickel	ppm	ASTM D5185m	>15	0	---
Titanium	ppm	ASTM D5185m		0	---
Silver	ppm	ASTM D5185m		0	---
Aluminum	ppm	ASTM D5185m	>25	2	---
Lead	ppm	ASTM D5185m	>100	51	---
Copper	ppm	ASTM D5185m	>200	3	---
Tin	ppm	ASTM D5185m	>25	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		2	---
Magnesium	ppm	ASTM D5185m		0	---
Calcium	ppm	ASTM D5185m		95	---
Phosphorus	ppm	ASTM D5185m		785	---
Zinc	ppm	ASTM D5185m		168	---
Sulfur	ppm	ASTM D5185m		1107	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	▲ 441	---
Sodium	ppm	ASTM D5185m		15	---
Potassium	ppm	ASTM D5185m	>20	0	---

FLUID CLEANLINESS

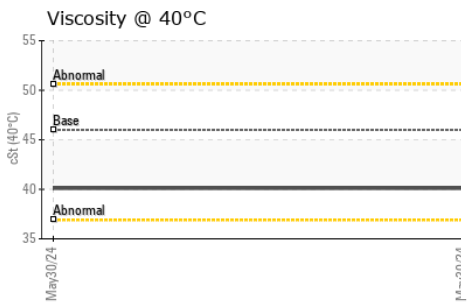
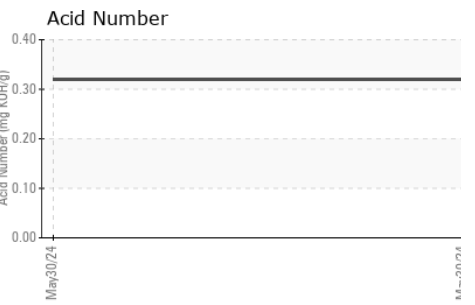
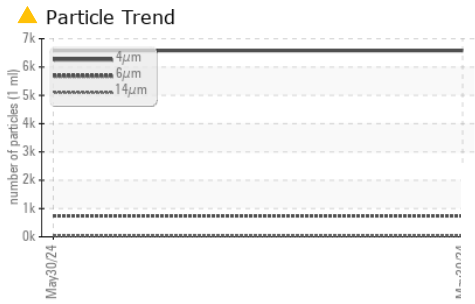
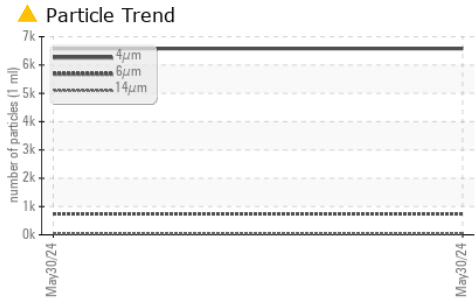
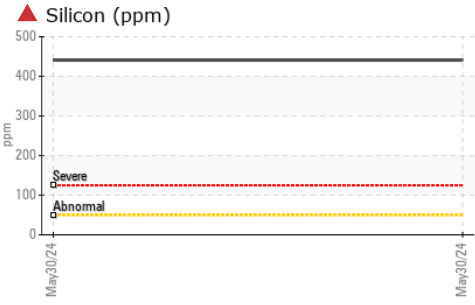
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647			6579	---
Particles >6µm	ASTM D7647	>160		▲ 741	---
Particles >14µm	ASTM D7647	>20		▲ 37	---
Particles >21µm	ASTM D7647	>4		▲ 10	---
Particles >38µm	ASTM D7647	>3		1	---
Particles >71µm	ASTM D7647	>3		0	---
Oil Cleanliness	ISO 4406 (c)	>14/11		▲ 17/12	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.32	---



OIL ANALYSIS REPORT



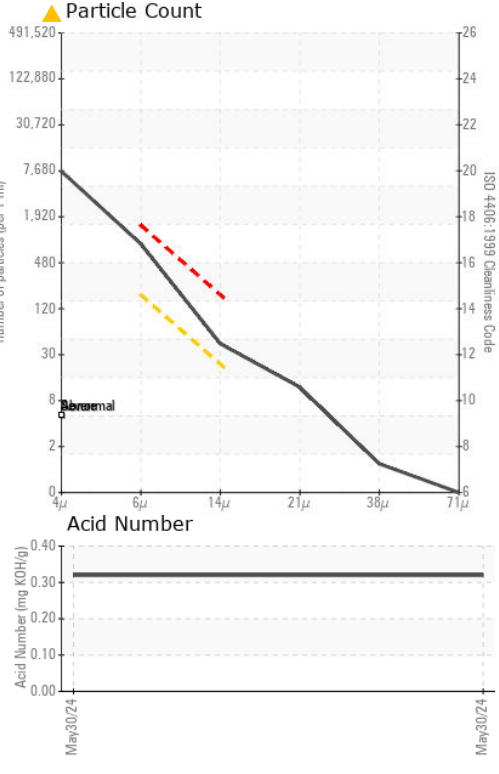
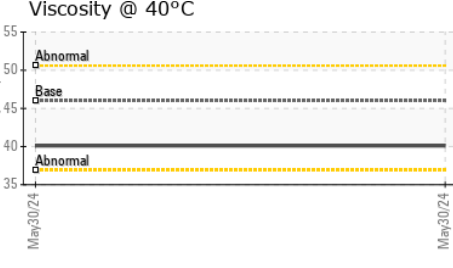
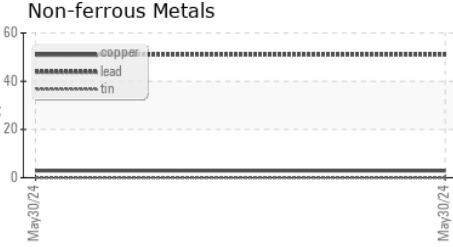
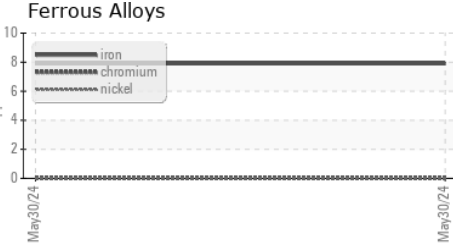
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46	40.1	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color		no image	no image
Bottom		no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0706673 **Received** : 12 Jul 2024
Lab Number : 06234853 **Tested** : 15 Jul 2024
Unique Number : 11123687 **Diagnosed** : 15 Jul 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: PrtCount)

DXP - GRAND PRAIRIE BALLISTIC DISTRIBUTION CENTER
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 GRAND PRAIRIE, TX
 US 75050
 Contact: DAVID SUMMERS
 DAVID.SUMMERS@DXPE.COM

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)