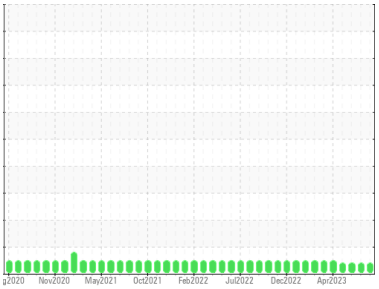
PROBLEM SUMMARY

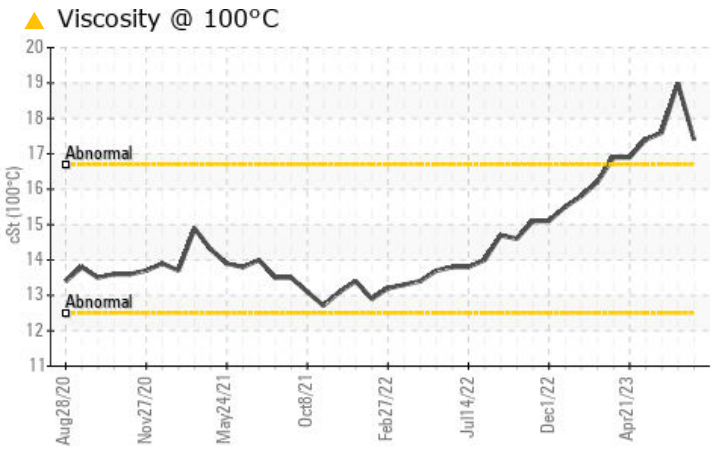
Sample Rating Trend



VISCOSITY

Area
Findlay
Machine Id
[Findlay] Oil - Port Genset
Component
Port Genset
Fluid
Marathon 15W40 (35 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	ATTENTION	ATTENTION
Visc @ 100°C	cSt	ASTM D445		▲ **17.4**	▲ 19.0	▲ 17.6

Customer Id: MARCAT
Sample No.: WC0769021
Lab Number: 05927451
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

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 Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

15 Jul 2023 Diag: Doug Bogart

VISCOSITY

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report

15 Jun 2023 Diag: Don Baldridge

VISCOSITY

The oil filtered at the time of sampling has been noted. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report

23 May 2023 Diag: Don Baldridge

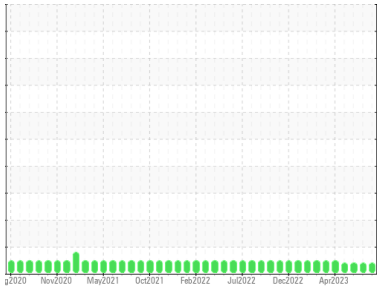
VISCOSITY

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Area
Findlay
Machine Id
[Findlay] Oil - Port Genset
Component
Port Genset
Fluid
Marathon 15W40 (35 GAL)

DIAGNOSIS

Recommendation
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0769021**	WC0769467	WC0769463
Sample Date		Client Info		**09 Aug 2023**	15 Jul 2023	15 Jun 2023
Machine Age	hrs	Client Info		**8505**	8441	7997
Oil Age	hrs	Client Info		**1**	8258	7845
Oil Changed		Client Info		**Changed**	Not Changd	Filtered
Sample Status				**ATTENTION**	ATTENTION	ATTENTION

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	**<1.0**	<1.0	<1.0
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>25	**12**	25	21
Chromium	ppm	ASTM D5185m	>5	**<1**	1	1
Nickel	ppm	ASTM D5185m	>5	**0**	0	<1
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m	>5	**<1**	0	<1
Aluminum	ppm	ASTM D5185m	>10	**2**	0	<1
Lead	ppm	ASTM D5185m	>10	**1**	2	2
Copper	ppm	ASTM D5185m	>20	**2**	5	4
Tin	ppm	ASTM D5185m	>5	**<1**	<1	1
Vanadium	ppm	ASTM D5185m		**<1**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

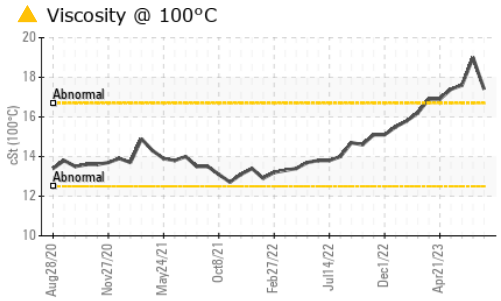
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**39**	49	52
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**50**	55	53
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**1245**	1168	1176
Calcium	ppm	ASTM D5185m		**1395**	1673	1653
Phosphorus	ppm	ASTM D5185m		**1035**	1072	1134
Zinc	ppm	ASTM D5185m		**1327**	1344	1459
Sulfur	ppm	ASTM D5185m		**3946**	3730	4142

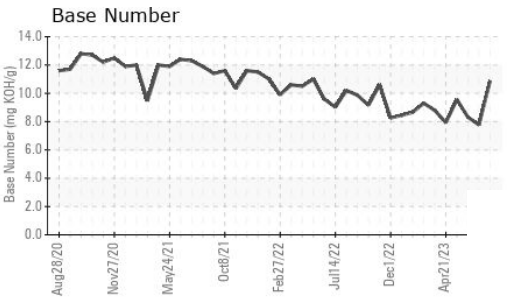
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**4**	3	4
Sodium	ppm	ASTM D5185m		**2**	12	9
Potassium	ppm	ASTM D5185m	>20	**2**	3	6

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.2**	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	**11.9**	18.2	16.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	**24.0**	31.1	30.1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**27.0**	40.9	38.1
Base Number (BN)	mg KOH/g	ASTM D2896		**10.88**	7.77	8.31

OIL ANALYSIS REPORT

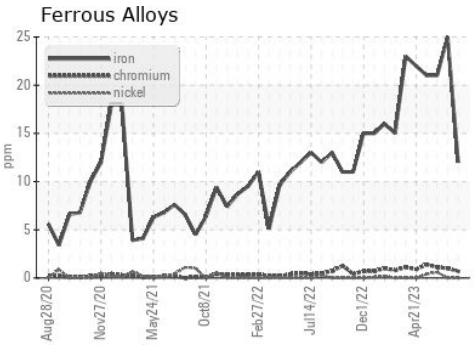


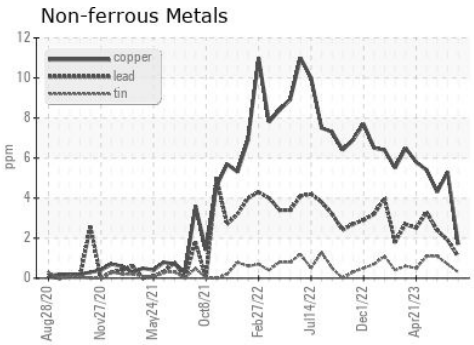


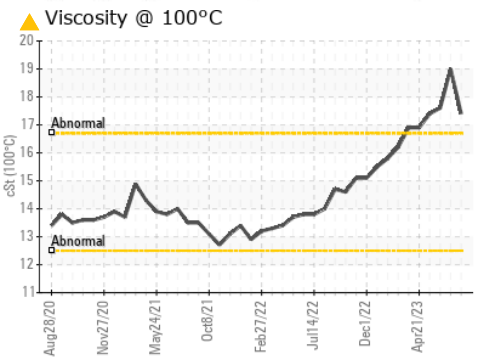
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

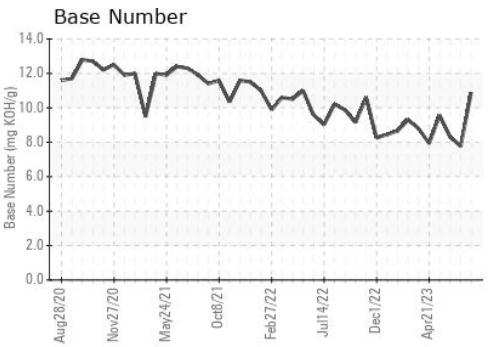
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		▲ **17.4**	▲ 19.0	▲ 17.6

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0769021
Lab Number : 05927451
Unique Number : 10607398
Test Package : IND 2

Received : 17 Aug 2023
Diagnosed : 18 Aug 2023
Diagnostician : Angela Borella

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)

MARATHON PETROLEUM CO.
101 12TH ST
CATLETTSBURG, KY
US 41169
Contact: SHAWN MCCLASKEY
stmcclaskey@marathonpetroleum.com
T: (606)739-2416
F: x: