

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area [1003001] LCL-9 ENGINE 2

Rear Diesel Engine

Fluid PHILLIPS 66 Fleet Supreme EC 15W40 (9 GAL)

DIAGNOSIS

Recommendation

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.

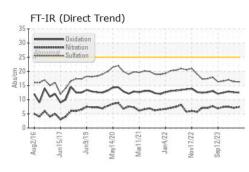
Fluid Condition

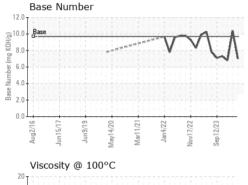
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

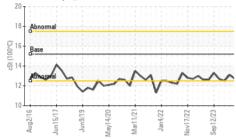
iAL)		g2016 Jun20	17 Jun2019 May2020	Mar2021 Jan2022 Nov2022	Sep2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0926834	WC0915211	WC0865374
Sample Date		Client Info		09 May 2024	06 Mar 2024	03 Jan 2024
Machine Age	hrs	Client Info		4935	4895	4785
Oil Age	hrs	Client Info		150	4874	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIC	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	0	<1	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	2	3
Lead	ppm	ASTM D5185m	>40	0	0	1
Copper	ppm	ASTM D5185m	>330	0	0	0
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		87	71	85
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		89	82	93
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		21	0	34
Calcium	ppm	ASTM D5185m		2245	2082	2344
Phosphorus	ppm	ASTM D5185m	1116	1116	1003	1200
Zinc	ppm	ASTM D5185m	1250	1228	1051	1389
Sulfur	ppm	ASTM D5185m		4397	4029	4341
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	3
Sodium	ppm	ASTM D5185m		2	2	2
Potassium	ppm	ASTM D5185m	>20	0	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.4	7.1	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.3	16.4	17.0
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.5	12.6	12.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.7	7.0	10.38	6.8
	. 0					

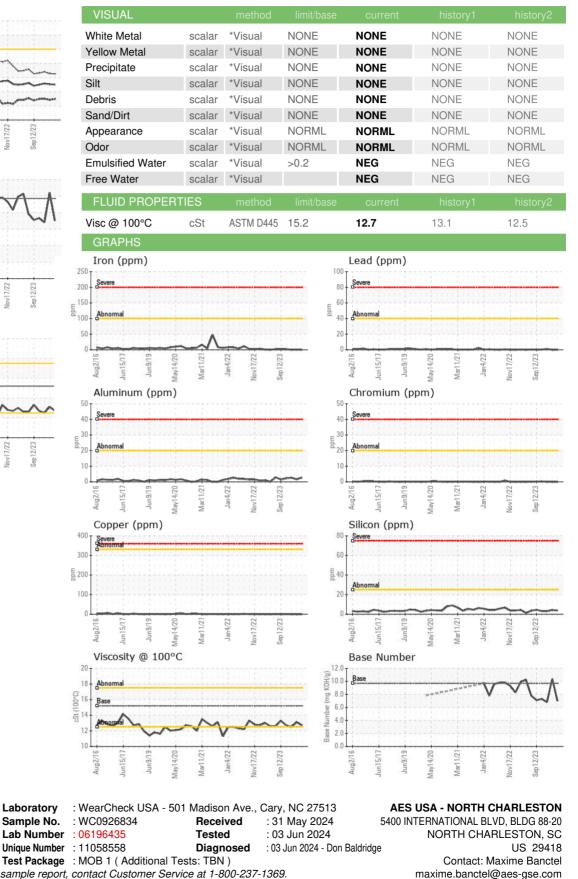


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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

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Laboratory

Sample No.

Certificate 12367

Contact/Location: Maxime Banctel - TLDNOR

T:

F: x: