

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area [1031434] LCL-10 ENGINE 1

Front Diesel Engine

PHILLIPS 66 Fleet Supreme EC 15W40 (--- 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.

22016 Jul2018	Apr2019 Dec2019 Nov2020	Aug2021 May2022 Sep2022 N	ay2023 Jan2024	
nethod				history2
ient Info		WC0935314	WC0908046	WC0803173

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0935314	WC0908046	WC0803173	
Sample Date		Client Info		20 Jun 2024	19 Mar 2024	24 Jan 2024	
Machine Age	hrs	Client Info		7238	7118	0	
Oil Age	hrs	Client Info		210	90	0	
Oil Changed		Client Info		Changed	Not Changd	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
-				-	-	-	
CONTAMINATION	١	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	4	3	7	
Chromium	ppm	ASTM D5185m	>20	<1	0	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	2	3	
Lead	ppm	ASTM D5185m	>40	<1	<1	<1	
Copper	ppm	ASTM D5185m	>330	<1	<1	<1	
Tin	ppm	ASTM D5185m	>15	0	0	<1	
Vanadium	ppm	ASTM D5185m		0	<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		78	75	63	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum		ASTM D5185m		111	86	75	
Manganese	ppm ppm	ASTM D5185m		0	0	<1	
Magnesium		ASTM D5185m		23	23	42	
Calcium	ppm	ASTM D5185m		23	2426	2082	
	ppm		1116	1195	1079	1025	
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m	1250	1573	1211	1144	
Sulfur	ppm	ASTM D5185m	1200	4645	4623	3441	
	ppm					-	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	3	3	3	
Sodium	ppm	ASTM D5185m		1	2	2	
Potassium	ppm	ASTM D5185m	>20	2	0	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.5	8.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	17.1	17.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	12.7	13.4	
Base Number (BN)	mg KOH/g	ASTM D2896		10.28	7.1	7.0	
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Silt

250

200

150

50

50

40

30

10

400

300

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100

20

18

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10

Laboratory

Sample No.

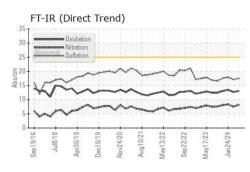
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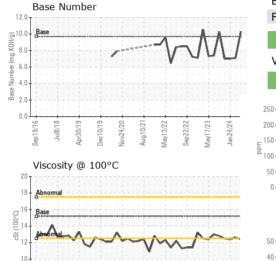
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Jan24/24

av13/77 en22/77 lav17/23 Sep19/16







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Contact/Location: Maxime Banctel - TLDNOR

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