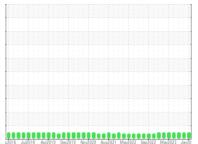


OIL ANALYSIS REPORT

Sample Rating Trend







LCL-10 ENGINE 1

Component

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

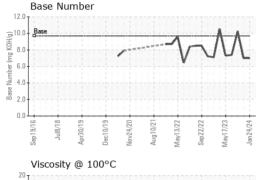
Fluid Condition

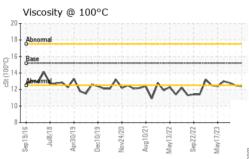
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL) p2016 Ju2018 Rep2019 Dec2019 New2020 Aug2021 May2022 Sep2022 May2023 Jun20							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0803173	WC0865378	WC0803179	
Sample Date		Client Info		24 Jan 2024	20 Nov 2023	23 Sep 2023	
Machine Age	hrs	Client Info		0	6935	6843	
Oil Age	hrs	Client Info		0	210	0	
Oil Changed		Client Info		N/A	Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIO	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	7	6	3	
Chromium	ppm	ASTM D5185m	>20	<1	<1	0	
Nickel	ppm	ASTM D5185m	>4	0	<1	0	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	2	0	
Lead	ppm	ASTM D5185m	>40	<1	<1	<1	
Copper	ppm	ASTM D5185m	>330	<1	1	<1	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	<1	
Cadmium	ppm	ASTM D5185m		<1	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		63	74	78	
Barium	ppm	ASTM D5185m		0	12	0	
Molybdenum	ppm	ASTM D5185m		75	91	87	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m		42	29	31	
Calcium	ppm	ASTM D5185m		2082	2238	2089	
Phosphorus	ppm	ASTM D5185m	1116	1025	1049	1044	
Zinc	ppm	ASTM D5185m	1250	1144	1234	1238	
Sulfur	ppm	ASTM D5185m		3441	4107	3869	
CONTAMINANT	S	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	3	3	3	
Sodium	ppm	ASTM D5185m		2	0	2	
Potassium	ppm	ASTM D5185m	>20	0	2	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	8.3	8.1	7.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	17.6	16.6	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	13.1	12.4	
Base Number (BN)	mg KOH/g	ASTM D2896	9.7	7.0	7.0	10.25	
,							



OIL ANALYSIS REPORT



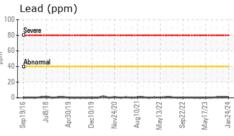


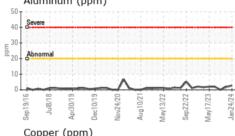
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

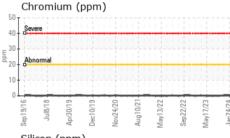
I LOID I NOI LI	TILO	memou			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	15.2	12.4	12.5	12.8

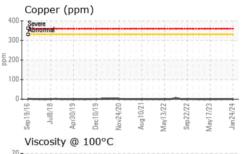
Sev	ere	1111	111	1111	111	1111		1111	
0									
1.50	normal								
1.1									
0	Ш		Ш				Ш		
013		6	6	¥, ¥	217	12	22	2	4
Sep19/16	Jul8/18	Apr30/19	Jec10/19	Nov24/7	Aug10/2	May13/2	Sep22/22	May17//	Jan24/24
Sel		Αp	Del	2	Au	No.	Sel	Na.	- ja

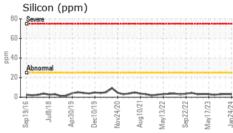
GRAPHS

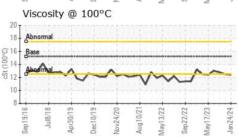


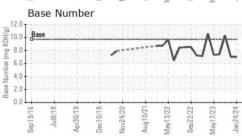














Laboratory Sample No. Lab Number **Unique Number**

: 06076303 : 10858394

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0803173

Recieved Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 31 Jan 2024 : 01 Feb 2024

Diagnostician : Wes Davis

US 29418 Contact: Maxime Banctel maxime.banctel@aes-gse.com

AES USA - NORTH CHARLESTON

NORTH CHARLESTON, SC

5400 INTERNATIONAL BLVD, BLDG 88-20

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)

T: F: x: