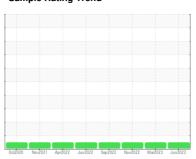


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



INTERNATIONAL 32

Component

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

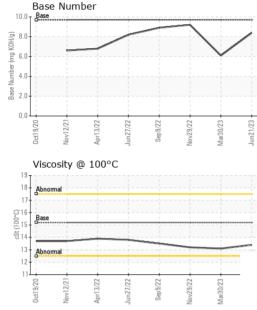
Fluid Condition

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

GAL)		0et2020	lov2021 Apr2022 Jun20	22 Sep 2022 Nov 2022 Mar 2023	Jun2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0096631	PCA0088238	PCA0088221
Sample Date		Client Info		21 Jun 2023	30 Mar 2023	29 Nov 2022
Machine Age	mls	Client Info		685205	662806	622210
Oil Age	mls	Client Info		22299	40696	26257
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	18	28	16
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	1	0
Lead	ppm	ASTM D5185m	>150	- <1	1	<1
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		9	3	7
Barium	ppm	ASTM D5185m		0	2	<1
Molybdenum	ppm	ASTM D5185m		65	59	53
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		997	871	871
Calcium	ppm	ASTM D5185m		1207	1175	1316
Phosphorus	ppm	ASTM D5185m	1116	1063	1001	1012
Zinc	ppm	ASTM D5185m	1250	1282	1257	1241
Sulfur	ppm	ASTM D5185m		3686	3024	3472
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	4	6	4
Sodium	ppm	ASTM D5185m		2	0	1
Potassium	ppm	ASTM D5185m	>20	0	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.5	0.8	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.8	10.1	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.9	21.2
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	15.9	15.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.7	8.4	6.1	9.2
Dago Hamber (DIA)	my nong	, 10 TW D2000	0.7	0.7	0.1	0.2



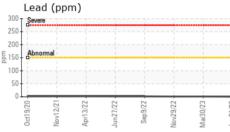
OIL ANALYSIS REPORT

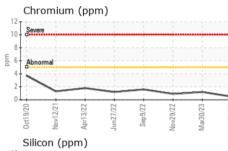


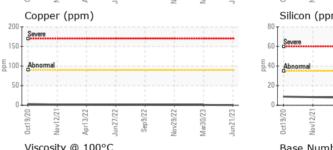
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
FLUID PROPE	RTIFS	method	limit/base	current	historv1	historv2

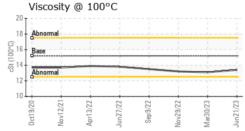
T LOID T TOT LITTILO					
Visc @ 100°C cSt	ASTM D445	15.2	13.4	13.1	13.2

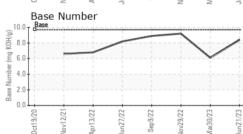
	IO					
Iron (ppr	n)					
Severe		;				
1						
Abnormal		:				
† ii						
-	-					
20 +	22	22 +	22 +	22 +	23+	73
Oct19/20 Nov12/21	Apr13/2	Jun27/22	Sep 9/22	Nov29/22	Mar30/2	Jun 21/23
			S	2	Š	=
Aluminur	n (ppn	n)				
Severe				;		
Abnormal						
Autionna						
1		1	1			















Laboratory Sample No. Lab Number Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0096631 : 05902052 : 10563408

Received Diagnosed

: 19 Jul 2023 : 20 Jul 2023

Diagnostician : Wes Davis Test Package : MOB 1 (Additional Tests: TBN)

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)

AREA WIDE TRANSPORTATION

3085 IL RT 71 OTTAWA, IL US 61350 Contact: JEFF jeff@driveawt.com T: (815)587-2947

Report Id: AREOTT [WUSCAR] 05902052 (Generated: 07/20/2023 18:28:07) Rev: 1

Contact/Location: JEFF - AREOTT

F: