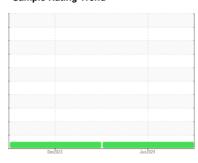


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id

MCI 81

Component **Diesel Engine**

DIESEL ENGINE OIL SAE 40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

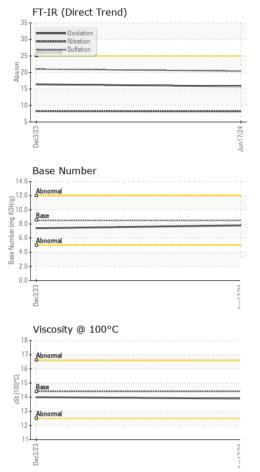
Fluid Condition

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

			Dec2023	Jun2024		
	=					
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0127423	PCA0082995	
Sample Date		Client Info		17 Jun 2024	03 Dec 2023	
Machine Age	mls	Client Info		0	0	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	36	33	
Chromium	ppm	ASTM D5185m	>20	6	6	
Nickel	ppm	ASTM D5185m	>4	<1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	10	7	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	12	18	
Tin	ppm	ASTM D5185m	>15	1	2	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	5	2	
Barium	ppm	ASTM D5185m	10	0	2	
Molybdenum	ppm	ASTM D5185m	100	62	66	
Manganese	ppm	ASTM D5185m		2	1	
Magnesium	ppm	ASTM D5185m	450	968	896	
Calcium	ppm	ASTM D5185m	3000	1147	1117	
Phosphorus	ppm	ASTM D5185m	1150	1055	890	
Zinc	ppm	ASTM D5185m	1350	1293	1189	
Sulfur	ppm	ASTM D5185m	4250	3194	3214	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	23	23	
Sodium	ppm	ASTM D5185m	>216	12	2	
Potassium	ppm	ASTM D5185m	>20	4	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.8	
Nitration	Abs/cm	*ASTM D7624	>20	8.2	8.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	21.0	
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	16.4	
Base Number (BN)	mg KOH/g	ASTM D2896		7.8	7.4	
(514)						



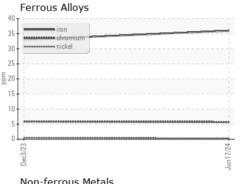
OIL ANALYSIS REPORT

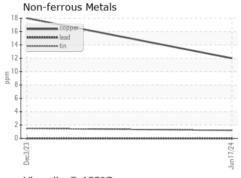


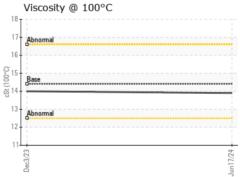
VISUAL		method	limit/base	current	history1	history2
VIOO/IL		momod	mme bacc	Janoni	111010171	111010172
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

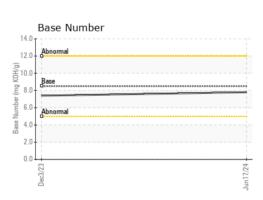
FLUID PROPE	ERITES	method	limit/base		history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.9	14.0	

GRAPHS













Certificate 12367

Laboratory

Sample No. : PCA0127423 Lab Number : 06212896 Unique Number : 11085760 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024 Tested : 19 Jun 2024

Diagnosed : 19 Jun 2024 - Wes Davis

EAGAN, MN US 55121 Contact: Tyler Smith TSmith@northfieldlines.com T: (651)203-8888

NORTHFIELD LINES

1034 GEMINI RD

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)