

OIL ANALYSIS REPORT

Sample Rating Trend



DETROIT DIESEL 8052 E

Diesel Engine

SUPREME 15W-40 4-STROKE MOTORCYCLE OIL (11 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.

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0905932	PCI-079344	PCI-693798
Sample Date		Client Info		25 Mar 2024	19 Nov 2012	12 Apr 2012
Machine Age	mls	Client Info		80098	747001	719956
Oil Age	mls	Client Info		5000	27045	29000
Oil Changed	1110	Client Info		Not Change	Changed	Changed
Sampla Statua				NORMAL		
Sample Status				NORMAL	NORIVIAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	ourrent	history1	history?
WEAN METALS				Current	nistory	1115101 y2
Iron	ppm	ASTM D5185m	>200	13	60	50
Chromium	ppm	ASTM D5185m	>10	0	2	2
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	4	4	7
Lead	ppm	ASTM D5185m	>30	0	3	1
Copper	ppm	ASTM D5185m	>30	<1	3	1
Tin	ppm	ASTM D5185m	>4	0	0	0
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	nom	ASTM D5185m	1	7	1	6
Barium	nnm	ASTM D5185m	1	0	0	0
Molybdenum	nom	ASTM D5185m	60	58	1	12
Manganese	nom	ASTM D5185m	1	0	0	0
Manganese	ppin	ASTM D5185m	1010	020	6	7
Coloium	ppin	ACTM DE105m	1070	1104	0	7
Dhaanhamua	ррп	ACTM DE105m	1150	1104	2327	2313
Zine	ррт		1070	930	904	3/4
	ppm	ASTM D5185M	1270	1204	1119	1115
Suitur	ppm	ASTM D5185m	2060	3523		
Lithium	ppm	ASTM D5185m			0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	3	5	4
Sodium	ppm	ASTM D5185m		1	1	3
Potassium	ppm	ASTM D5185m	>20	4	1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	1.8	1.2
Nitration	Abs/cm	*ASTM D7624	>20	6.4		
Sulfation	Abe/ 1mm	*ASTM D7/15	>30	17.8		
Juilation	MD9/.111111	AS IN D7413	×00	17.0		



OIL ANALYSIS REPORT





	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
/	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8		
	Base Number (BN)	mg KOH/g	ASTM D2896	8.3	8.6	3.69	4.58
/	VISUAL		method	limit/base	current	historv1	historv2
~	White Metal	scalar	*\/ieual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
711	Precipitate	scalar	*Visual	NONE	NONE		
Sep30, 0ct7, Dec21, Apr12/ Vov19/ Mar25/	Silt	scalar	*Visual	NONE	NONE		
En En	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPERT	IES	method	limit/base	current	history1	history2
/11	Visc @ 100°C	cSt	ASTM D445	15.6	12.9	14.1	13.7
Sep30/ Oct7/ Apr12/ Vov19/ Mar25/	GRAPHS						
	Iron (ppm)				Lead (ppm)		
	400 Severe	1 1	· · · ·	8	Severe		
	300 - Abnormal			- 61 E -			
	<u>a</u> 200 - p			ā.4	Abnormal		
		\searrow					
	21/10	30/11.	21/11	25/24	21/10	30/11.	21/11. 12/12. 19/12. 25/24.
	Jan Jan	Sep	Apr	Mari	Jan Oct	Sep Ju	Dec Novi Mari
	Aluminum (ppm)			2	Chromium (p	pm)	
	40			1	Severe	<u></u>	
				<u></u>	Abnormal		+
	10	~			5		
			2	*			2
	Jul13// Jct21// Jan25/	Sep30/ 0ct7/	bec21/	1 ar 25/7	Jul13// Dct21// Jan25/	Jul7/ Sep30/ 0ct7/)ec21/ \pr12// lov19// lar25//
	Copper (ppm)		1 4 2	2	Silicon (ppm)		
		1		5	Severe	· · · · · · · · · · · · · · · · · · ·	
	_ 100 -			- 3	Abnormal		·····
	Severe	_/ \		Ed 2	D -		
	Abnormal	/		1		\sim	
	3/10 1/10	60/11-	2/12 - 9/12 -	5/24	3/10	11/11 10/11	2/12 - 9/12 - 5/24 -
	Jull Dct2 Janá	Sep	Decá Apr1 Nov1	Mar2	Jull Oct2 Janí	Ju Sep3	Decá Apr1 Nov1 Mar2
	Viscosity @ 100°C			E 10	Base Number		
	18 Abnormal	1 1		H N 8.	Base		/
	0 16 Base				0-		
	경 14 12 Abnormal) - j i		
	10	<u> </u>	2			<u> </u>	2
	ul13/1 ct21/1 Ju17/1	ep30/1 0ct7/1	ec21/1 pr12/1	ar25/2	ul13/1 ct21/1 an25/1	Jul7/1 ep30/1	ec21/1 pr12/1 ov19/1 ar25/2
Laboratory Sample No. Lab Number Unique Number Test Package	: WearCheck USA - 501 : WC0905932 : 06132660 : 10952125 : MOB 1 (Additional Te	Madiso Recei Teste Diagr sts: TBN	n Ave., Cary ived : 28 d : 01 nosed : 01	, NC 27513 Mar 2024 Apr 2024 Apr 2024 - W	/es Davis	MIDWEST MO 2169 MOU Contact	MUSTANG DF MUSTANG DF INDS VIEW, MN US 55112 I: FRANK DIETZ
aiscuss this sample report, Denotes test methods that a atements of conformity to sp	contact Customer Servio are outside of the ISO 17 pecifications are based o	ce at 1-8 7025 sco n the sin	iuu-237-1369 pe of accred pple accepta). litation. nce decision	rule (JCGM 106	trank.diet T 6:2012)	z@mmeinc.con : (763)225-6382 F: x

Ē

Contact/Location: FRANK DIETZ - MIDFAR