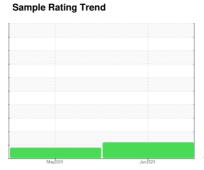


OIL ANALYSIS REPORT







Machine Id
MH-97
Component
Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- LTR)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Moderate concentration of visible metal present. 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 acceptable for the time in service.

			May2024	Jun2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
	VIATION		IIIIIIVDase		,	HIStory2
Sample Number		Client Info		PCA0113905	PCA0124472	
Sample Date		Client Info		13 Jun 2024	03 May 2024	
Machine Age	hrs	Client Info		3052	2297	
Oil Age	hrs	Client Info		500	500	
Oil Changed		Client Info		Changed	N/A	
Sample Status				ABNORMAL	ABNORMAL	
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	24	▲ 149	
Chromium	ppm	ASTM D5185m	>20	 <1	4	
Nickel	ppm	ASTM D5185m	>4	0	1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>20	7	22	
Lead	ppm	ASTM D5185m	>40	0	1	
Copper	ppm	ASTM D5185m	>330	2	18	
Tin	ppm	ASTM D5185m	>15	0	2	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	7	23	
Barium	ppm	ASTM D5185m	10	0	5	
Molybdenum	ppm	ASTM D5185m	100	61	83	
Manganese	ppm	ASTM D5185m		<1	5	
Magnesium	ppm	ASTM D5185m	450	966	564	
Calcium	ppm	ASTM D5185m	3000	1229	1847	
Phosphorus	ppm	ASTM D5185m	1150	1007	1088	
Zinc	ppm	ASTM D5185m	1350	1280	1358	
Sulfur	ppm	ASTM D5185m	4250	3281	3425	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	12	
Sodium	ppm	ASTM D5185m	>216	4	4	
Potassium	ppm	ASTM D5185m	>20	21	60	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	10.1	14.8	
Sulfation	Abs/.1mm	*ASTM D7415		21.1	28.2	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.1	35.0	
		ASTM D2896			6.41	
Base Number (BN)	mg KOH/g	79 LINI D5030	8.5	8.54	0.41	



OIL ANALYSIS REPORT





Certificate 12367

Sample No.

: PCA0113905 Lab Number : 06214926 Unique Number : 11087790

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

Received : 19 Jun 2024 : 21 Jun 2024 Diagnosed Test Package : MOB 2 (Additional Tests: TAN Man)

: 21 Jun 2024 - Sean Felton

SCRAP METAL SERVICES (SMS Mill Services LLC) 250 WEST U.S. HWY 12 CHESTERTON, IN US 46304

Contact: DOMINIC WHITE dwhite@scrapmetalservices.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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)

Contact/Location: DOMINIC WHITE - SCRBURIN

T:

F: