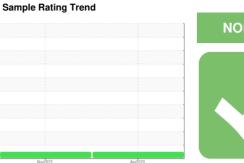


OIL ANALYSIS REPORT



NORMAL



MISCELLANEOUS HM Lopes 317

Diesel Engine

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Hm lopes 317)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

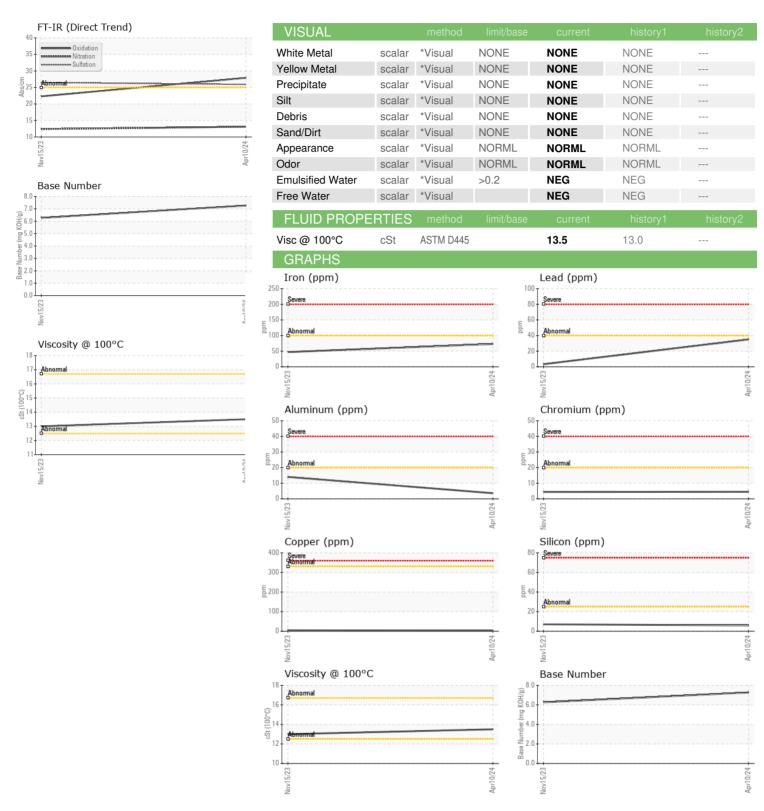
Fluid Condition

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

			Nov2023	Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109892	PCA0109773	
Sample Date		Client Info		10 Apr 2024	15 Nov 2023	
Machine Age	hrs	Client Info		1157	1157	
Oil Age	hrs	Client Info		1157	1157	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ON	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	0.0	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	73	47	
Chromium	ppm	ASTM D5185m	>20	4	4	
Nickel	ppm	ASTM D5185m	>4	<1	0	
Titanium	ppm	ASTM D5185m		<1	2	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	4	14	
Lead	ppm	ASTM D5185m	>40	35	3	
Copper	ppm	ASTM D5185m	>330	3	5	
Tin	ppm	ASTM D5185m	>15	3	1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6	7	
Barium	ppm	ASTM D5185m		0	<1	
Molybdenum	ppm	ASTM D5185m		67	63	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		1094	935	
Calcium	ppm	ASTM D5185m		1308	1187	
Phosphorus	ppm	ASTM D5185m		1168	1003	
Zinc	ppm	ASTM D5185m		1475	1248	
Sulfur	ppm	ASTM D5185m	11 1-0	3569	3089	
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	7	
Sodium	ppm	ASTM D5185m	00	3	1	
Potassium	ppm	ASTM D5185m	>20	2	57	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	13.1	12.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.9	26.5	
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.9	22.3	
Base Number (BN)	mg KOH/g	ASTM D2896		7.27	6.27	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Unique Number : 10977644

: PCA0109892 Lab Number : 06147566

Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Apr 2024 Tested : 15 Apr 2024

Diagnosed : 16 Apr 2024 - Don Baldridge

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.

G LOPES CONSTRUCTION

565 WINTHROP ST TAUNTON, MA US 02780

Contact: BUTCH MCGRATH bmcgrath@glopes.com

Submitted By: MATT MANOLI

T: F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)