



CONSTRUCTION EQUIPMENT

MACK 1M2N179YXFA095766 - DIESEL ENGINE



Sample No: VCE254075
Oil Type: MYSTIK JT-8 SYN SUPER HD 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCE254075	VC249869	VCP168988	VCE155785
Sample Date	14 Dec 2023	20 Feb 2019	09 Oct 2017	15 Oct 2013
Machine Hours	10516	297005	291896	13052
Oil Hours	694	5109	312	416
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



LIPSCOMB COUNTY
P.O. BOX 144
LIPSCOMB, TX
US 79056
Contact: MARK BERNIE
lipscombco1@gmail.com
T: (806)862-5455
F:



OIL CONDITION

Visc @ 100°C	cSt	17.1	14.29	15.13	16.00
Base Number (BN)	mg KOH/g	9.2	---	---	---
Oxidation (PA)	%	126	66	68	48



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1	0.5	0.5	0.2
Nitration (PA)	%	122	72	75	50
Sulfation (PA)	%	83	54	58	44
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	4	4	4
Sodium	ppm	3	2	3	5
Potassium	ppm	4	7	0	0



WEAR METALS

Iron	ppm	71	18	24	36
Copper	ppm	11	2	3	4
Lead	ppm	17	2	3	11
Tin	ppm	2	0	0	0
Aluminum	ppm	2	2	2	3
Chromium	ppm	2	<1	1	3
Molybdenum	ppm	82	65	55	48
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1445	1196	1258	1356
Magnesium	ppm	1289	1139	971	902
Zinc	ppm	1700	1243	1286	1405
Phosphorus	ppm	1236	1103	1130	1034
Barium	ppm	0	0	0	0
Boron	ppm	8	<1	2	3

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: LIPLIP
Unique No: 10796387
Signed: Don Baldrige
Report Date: 22 Dec 2023



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GRAPHS

