

[[M07000008]] FREIGHTLINER M2 F18838 - DIESEL ENGINE

Sample No: VCP297082

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VCP297082	VCP250116	VCP246461	VCP240653
Sample Date	03 Dec 2020	04 Sep 2020	12 Oct 2019	17 Jun 2019
Machine Hours	10571	10140	8236	7576
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.9	13.2	14.5	14.3
Oxidation (PA)	%	96	73	90	88

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.7	1	1.1	1
Nitration (PA)	%	108	100	100	100
Sulfation (PA)	%	68	72	69	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	6	4	4
Sodium	ppm	4	4	5	6
Potassium	ppm	2	5	2	2

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 condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	43	45	32	31
Copper	ppm	1	2	1	1
Lead	ppm	0	<1	0	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	4	5	5	5
Chromium	ppm	2	2	2	2
Molybdenum	ppm	47	4	48	47
Nickel	ppm	<1	<1	1	1
Titanium	ppm	<1	1	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1419	2477	1504	1512
Magnesium	ppm	702	58	607	626
Zinc	ppm	927	1054	1175	1109
Phosphorus	ppm	734	923	846	906
Barium	ppm	0	0	0	0
Boron	ppm	22	4	14	19

Depot: VOLVO8882
Unique No: 9280921
Signed: Wes Davis
Report Date: 07 Dec 2020

GRAPHS

