

**COCONINO COUNTY
DERRICK WILSON**

COMPANY NAME: COCONINO COUNTY

SHOP JOB NUM:

SERIAL NUMBER: 1FUYFCYB4TP89157
MANUFACTURER: FREIGHTLINER
MODEL: D120064CD_FREIGHTLIN

COMP SERIAL NUM:
COMPARTMENT MODEL:
COMP MANUFACTURER:
SAMPLE LABEL NUM:

FLUID BRAND/WEIGHT: Mobil Delvac15W-40

FLUID TYPE:

CSA EXPIRATION:

1725 S. Country Club Drive

Mesa, AZ 85210

Telephone, (480) 633-4835

http://empire.cal.com

ISO 9001:2015 Registered



FAX:
PHONE:
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days): 5

LAB CONTROL NUMBER

SAMPLE DATE

PROCESS DATE

EQUIPMENT METER

METER ON FLUID

FLUID CHANGED

MAKE UP FLUID

MAKE UP FLUID UNITS

FILTER CHANGED

H160-5123-0140

28-Apr-2021

03-May-2021

44964 MI

9970 MI

Yes

11

GAL

Yes

No Action Required

NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL. NO ACTION REQUIRED.

H160-50258-0003

09-Sep-2020

14-Sep-2020

34974 MI

4174 MI

Yes

11

GAL

Yes

No Action Required

NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL. NO ACTION REQUIRED.

H160-50134-0177

08-May-2020

13-May-2020

30800 MI

9201 MI

Yes

11

GAL

Yes

No Action Required

NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL. NO ACTION REQUIRED.

H160-49330-0212

20-Nov-2019

26-Nov-2019

21588 MI

6451 MI

Yes

11

GAL

Yes

No Action Required

NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

Wear Metals (ppm)	Copper	Iron	Chromium	Aluminum	Silicon	Lead	Sodium	Tin	Nickel	Barium	Silver	Zinc	Boron	Calcium	Phosphorus	Magnesium	Potassium	Molybdenum	Titanium	Vanadium
H160-5123-0140	5	18	1	3	4	0	0	0	1	0	0	834	63	1255	772	746	5	7	0	0
H160-50258-0003	1	9	0	0	4	0	0	0	2	0	0	1027	115	1707	907	912	0	9	0	0
H160-50134-0177	2	15	1	5	4	0	11	0	6	0	1	895	80	1550	756	716	3	18	0	0
H160-49330-0212	2	12	1	1	6	1	6	0	1	0	0	883	51	1642	756	520	2	44	0	0

**Oil Condition /
Particle Count (cf/ml)**

ST	OXI	NIT	SUL	W	A	F	V100
H160-5123-0140	9	14	9	20	N	N	14.1
H160-50258-0003	0	15	8	22	N	N	13.0
H160-50134-0177	0	18	9	26	N	N	13.1
H160-49330-0212	1	22	7	23	N	N	12.9

A = Antifreeze, F = Fuel, W = Water, P = Positive, N = Negative, T = Trace, E = Excessive, NIT = Nitration, OXI = Oxidation, ST = Soot, SUL = Sulfation,
ISO = ISO Rating, POI = POI Index, TAN = Total Acid Number, TBN = Total Base Number, H2O = Karl Fisher result, V100 = Viscosity@100C,
V40 = Viscosity@40C, ST_WT = %SOOT by Weight, PFC = Percent Fuel Content, PVI = Particle Volume Index

COCOONINO COUNTY PUBLIC WORKS
J HAMMITT

COMPANY NAME : COCOONINO COUNTY

SHOP JOB NUM :

COMP SERIAL NUM :



SERIAL NUMBER : 1H0VFCYB4TP869157

COMPARTMENT MODEL :

MANUFACTURER : FREIGHTLINER

COMP MANUFACTURER :

MODEL : D120064CD_FREIGHTLIN

SAMPLE LABEL NUM :

JOB SITE :

FLUID BRAND/WEIGHT :

CSA ACTIVE :

FLUID TYPE :

1725 S. County Club Drive
Mesa, AZ 85210
Telephone, (480) 633-4835
http://empire.cat.com

ISO 9001:2015 Registered



PHONE :
FAX :
SAMPLE TYPE : COOLANT - RAD_1
SAMPLE SHIP TIME (days) : 2

LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS
--------------------	-------------	--------------	-----------------	----------------	---------------	---------------	---------------------

H160-50235-1023 09-Sep-2020 11-Sep-2020 34974 HR 34974 HR No

Monitor Compartment
COOLANT IS CLOUDY. THIS COULD BE ASSOCIATED WITH AN ABNORMAL AMOUNT OF SUSPENDED SOLIDS. ALL OTHER LEVEL 1 TESTS APPEAR WITHIN RANGE FOR THIS COOLANT. MONITOR COMPARTMENT.

H160-49331-1018 18-Nov-2019 27-Nov-2019 740269 HR 171707 HR No

No Action Required
ALL LEVEL 1 TESTS APPEAR WITHIN RANGE FOR THIS COOLANT. CONTINUE TO USE THIS COOLANT. SAMPLE AGAIN AT THE REGULAR INTERVAL TO MONITOR THE COOLING SYSTEM.

H160-48096-1023 04-Apr-2018 06-Apr-2018 724092 HR 724092 HR No

No Action Required
ALL LEVEL 1 TESTS APPEAR WITHIN RANGE FOR THIS COOLANT. CONTINUE TO USE THIS COOLANT. SAMPLE AGAIN AT THE REGULAR INTERVAL TO MONITOR THE COOLING SYSTEM.

Metals (ppm)	BP	FP	GL	pH	CON
H160-50235-1023	109	-48	57	7.8	5071
H160-49331-1018	108	-48	57	7.8	5382
H160-48096-1023	108	-47	56	7.7	5577

Other	NO2	Odor	Color	App	Foam	Oil	Paint
H160-50235-1023	880	norm	orange/fluorescent	sl cloudy	norm		none
H160-49331-1018	815	norm	orange/fluorescent	clear	norm		none
H160-48096-1023	815	norm	red/fluorescent	clear	norm	none	none

Al = Aluminum, Cu = Copper, Fe = Iron, K = Potassium, Na = Sodium, Pb = Lead, Sn = Tin, V = Vanadium, Zn = Zinc, B03 = Borate, CaC = Ca as CaCO3, MgC = Mg as CaCO3, MoO4 = Molybdate, PO4 = Phosphate, SiO3 = Silicate, TH = Total Hardness, CL = Chloride, CO3 = Carbonate, GLO = Glycolate, NO2 = Nitrite, NO3 = Nitrate, PO4 = Phosphate, SAc = Sulfate, TT = Tolytrazole, BP = Boil Point(°C), FP = Freeze Point(°C), GL = Glycol, CON = Conductivity, App = Appearance, Paint = Precipitate Amount, PApp = Precipitate Appearance, PCol = Precipitate Color, PProp = Precipitate Property